



DIVERSITECH PRODUCTS CATALOGUE



Simplify
the way you
Work™



One of the most established and trusted names in the USA, DiversiTech products are now available throughout Europe. With headquarters in Atlanta, DiversiTech was originally launched in 1971 as a pre-cast concrete manufacturing company with one exceptional product, the CladLite® Concrete Equipment Pad. Nearly forty years on, the company has earned a place in the HVACR (Heating Ventilation Air Conditioning and Refrigeration) industry as one of the fastest growing manufacturers in the USA and, increasingly, in the world. In particular, DiversiTech has made its name in America with the UltraLite family of equipment pads.

As a priority, DiversiTech is constantly developing its manufacturing expertise. DiversiTech now owns three production facilities in the USA, plus two in the Far East, outputting a wide array of goods from coil cleaners to anti-vibrations pads. Of the products featured in this catalogue, over three-quarters are manufactured by the divisions of DiversiTech. Manufacturing in-house gives DiversiTech major advantages in quality control, cost effectiveness and product development, all of which are the envy of competitors. Indeed, innovation is

also a key part of the company strategy and great efforts are made to listen to the ideas of customers and, through a team of skilled engineers, turn these concepts into the products of tomorrow.

Another key DiversiTech philosophy is for the customer to be able to acquire a wide range of quality products with a single purchase order. Many wholesalers today appreciate the ease, efficiency and effectiveness of dealing with a sole supplier. The broad choice of DiversiTech products available from stock in Nottingham, combined with the fast-growing Pump House range, makes this ideal of single-sourcing a reality.

DiversiTech is also a very flexible company. If you have a demand for a product in the full DiversiTech catalogue which is not currently stocked in Nottingham, speak to your Pump House sales representative and every effort will be made to ensure ease of supply. With state of the art warehouse and distribution facilities in Atlanta and Antwerp in Belgium, the UK warehouse stock is regularly replenished to ensure excellent product availability and fast deliveries.



Keep it simple.

Keep it simple with Pro-Universal™, the powerful indoor and outdoor coil cleaner that is safer for the user and kinder to the equipment.



PRO-UNIV	Concentrated universal coil cleaner
G2G-UNIV	Pre-mixed universal coil cleaner
GRAN-UNIV	Granular universal coil cleaner
ZAP-UNIV	Aerosol universal coil cleaner

PRO-UNIV and G2G-UNIV are NSF registered as suitable for use in food preparation areas.



Power Sprayer



Stop pumping up your old sprayer and enjoy the freedom and speed of the new DiversiTech Power Sprayer.

DiversiTech's new Power Sprayer makes coil cleaning easier and faster than ever before. This new unit is designed as a backpack sprayer and holds up to 15 litres of coil cleaning solution. The battery powered unit will spray continuously for 10 hours on a single charge. Included are three different nozzles to give you the right spray for any situation. Other features include padded backpack straps for a comfortable fit, plug-in charger for fast recharging, and a convenient center

mount handle. The sprayer also comes with an extra long spray wand with curved tip for accurate application of cleaner and a large on/off valve which can lock in position for easier spraying of big jobs. The large tank opening also makes it easy to add coil cleaner and mix to the correct ratio. The Power Sprayer has been tested and is compatible with all DiversiTech coil cleaners.



Gallo Gun Drain Line Cleaner

90° Fitting for Tight Areas



Fitting for Oil Burner Lines



Fitting for Larger Drains



Fittings increase the versatility of the innovative Gallo Gun Drain Line Cleaner and are available from your distributor.

The Gallo Gun Drain Line Cleaner is a lightweight (3oz.) portable tool designed to blow out condensate drain lines instantly. Simply insert a Swoosh CO₂ cartridge into the Gallo Gun Drain Line Cleaner and with a press of the trigger — **SWOOSH** — 800 psi of oil free food grade air clears the line.

SMALL AND LIGHTWEIGHT

Packs cleaning power into a small, lightweight package. This prevents the need for carrying heavy air or nitrogen tanks.

AIR POWER

Uses CO₂, eliminating the mess caused by water back flushing drain lines.

ENVIRONMENTALLY FRIENDLY

Uses carbon dioxide (CO₂), a common component of air, and is totally safe for use in the environment. The Gallo Gun Drain Line Cleaner is an excellent alternative to the environmentally unfriendly practice of using refrigerant to clean the drain line.

FLEXIBLE HOSE ASSEMBLY

Enables you to maneuver through cabinets, coils, and hard to reach drains.

ADAPTER KIT

Allows for use on oil burner lines and tighter areas with a 90° fitting.

The Gallo Gun Drain Line Cleaner is for use with condensate drain and oil burner lines only.

Pro-Universal™

Multipurpose Coil Cleaner

Keep it simple with Pro-Universal™, the powerful coil cleaner that is safer for the user and kinder to the equipment.

Benefits of Pro-Universal™

- *Flexible and multi-functional*
 - Can be used on condensers, evaporators and air filters, and even as a case cleaner.
 - No need to carry an array of cleaning products.
- *Unique triple action cleaning effect of degreasing, deodorising and de-contamination*
 - Removes sources of contamination which cause slime and sludge build up in the drain pan.
 - Ensures a complete cleaning regime.
- *On-going protection for the coil*
 - A mono-molecular coating is left on the coil after cleaning, providing protection and aiding future maintenance.
- *Non-foaming and safe for coils*
 - Attacks the dirt and grime but not the coil itself.
 - Safer for the equipment and the engineer.
- *Economic and effective*
 - Low concentration mix ratios provide total cleaning power cost-effectively.
- *Choice of two product options:*
 - 5 litre concentrates.
 - 1 litre pre-mixed G₂G (Good 2 Go) Universal.

The downside of traditional foaming coil cleaners

Many traditional foaming coil cleaners are uninhibited acid or alkaline formulations. These chemicals can be potentially dangerous to both the user and indeed the equipment itself.

When traditional acid cleaners leave coils shiny, what in fact has happened is that the acid has reacted with the metal, stripping away a layer of aluminum from the coil. This may leave a bright, attractive finish but the acid has actually eaten into the coil itself.

Research has shown that after six treatments by an acid based cleaner, as much as 24% of the metal from the coil has been dissolved. Typical traditional alkaline cleaners can remove up to 18% of the metal, as illustrated in the graph at right.

Less metal on the coil means that heat exchange is less effective and so more energy is required to achieve the same level of cooling, leading to increased utilities bills. Furthermore, placing increased demands on the equipment over a period of time may shorten its lifespan and incur repair or replacement costs.

The Pro-Universal difference

As a solution, DiversiTech has developed Pro-Universal™, which not only cleans very effectively, but also has virtually no detrimental long-term effect on the equipment.

Pro-Universal™ features a special inhibitor that prevents its alkaline ingredient from attacking the coil. Instead, it concentrates solely on actively breaking down soil and dirt.

Tests have proved that, after six treatments, unlike with the uninhibited cleaners, none of the metal has been removed. This means that energy is less likely to be wasted through inefficient operation, saving money and also benefitting the environment.

As well as being friendlier to equipment, Pro-Universal™ is also safer for the user than many traditional foaming cleaners.

Another key advantage of Pro-Universal™ is that it leaves a mono-molecular coating on the coil. This coating guards the coil between treatments, protecting the coil from the environment and also making the next clean that bit easier.

Pro-Universal™ is so-named as it is equally effective on condensing and evaporating units. This makes product selection simple for the engineer. No more need to carry an array of chemicals – Pro-Universal™ will do the job.

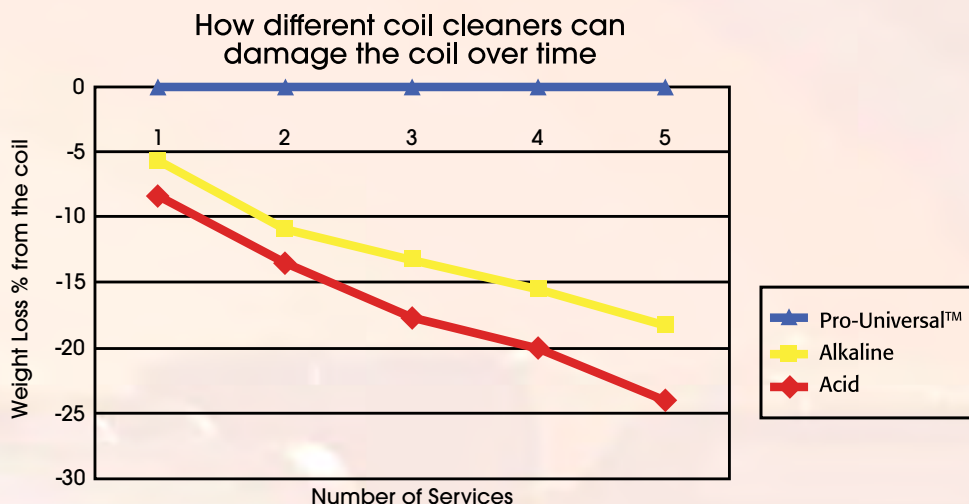
Why should equipment be regularly maintained?

A frequent maintenance programme is vital for the upkeep of air conditioning equipment. Regular cleaning with Pro-Universal™ may in fact save the owner of the equipment money over time rather than being regarded as an expense.



Adam was weighed down by too many **chemical cleaners**.

His back **ached** from hauling them around, they took up too much **space** in his van and product selection was a **nightmare**, not to mention the **cost**.



- Extend equipment life and reduce the likelihood of costly repairs or replacements
 - Dirty coils and fans increase workload on the compressor, thereby potentially shortening its lifespan.
- Lower utilities cost
 - A layer of dirt on a coil just 1mm thick can result in a 35% hike in energy consumption, potentially increasing utilities bills significantly.
- Improved indoor air quality
 - Poor indoor air quality can reduce employee comfort and productivity, deter customers and even lead to liability issues.

Suitable uses	Condenser units, evaporator units, air filters, hard surfaces (plastics, metals, masonry, wood, ceramics)
Dilution ratios	6:1 for condenser units 10:1 for evaporator units
Rinsing required	Yes for condenser units, no for evaporator units
Colour coded top	Yellow

Pro-Universal and G2G Universal are for use by professionals only. For further usage instructions, please refer to product safety data sheets.



Pro-Universal™

Universal indoor and outdoor condenser and evaporator coil cleaner

- Non-foaming and safe for coils – unique fin-friendly formula removes the dirt but does not attack the aluminium and therefore maximising heat transfer and extending equipment life.
- Removes sources of contamination which cause build up slime and sludge in the drain pan.
- Leaves a mono-molecular coating on the coil to protect it and make subsequent cleaning easier.



Pro-Universal™ 5 litre and G2G Universal 1 litre versions are NSF registered as Food Safe for use in food preparation areas.



Pro-Universal takes the headache out of cleaning for Adam. Just one bottle is all he needs. be it for cleaning both condenser and evaporator coils, degreasing, odour control or surface cleaning. **Pro-Universal** keeps life simple. Just ask Adam.

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-UNIV-GB	Pro-Universal™, 5l	EA	4
SPRO-UNIV-GB	Pro-Universal™ mini, 500ml	EA	12
G2G-UNIV-GB	G ₂ G™ Good 2 Go pre-mixed Pro-Universal™, 1l	EA	12
GRAN-UNIV-GB	Pro-Universal™ Granular Coil Cleaner™, makes 8l	EA	12
ZAP-UNIV-GB	Pro-Universal™ Aerosol Spray, 500ml	EA	12

Diversi-Flush™ HVAC Flushing Solvent

Diversi-Flush™ answers your need for a professional quality flushing solvent with the components to match.

- Formulated for refrigerant retrofits, conversions and Compressor burnouts.
- Lower cost solution than competitive pre-charged kits
- Solvents are non-VOC, conform to EPA SNAP standards, and are non-HAZMAT
- Low toxicity and residue free
- Flash Point: No flash point to boiling (41°C/106°F) - TAG Closed Cup (per ASTM D-56)
- Kit includes a reusable tank with a pressure relief valve for added safety, hose with an injector trigger nozzle and a return hose adaptor.
- Better delivery system



FREQUENTLY ASKED QUESTIONS

Q: What refrigerants is Diversi-Flush™ compatible with?

A: Diversi-Flush™ is compatible with CFC and HFC refrigerants and compressor oils.

Q: Is Diversi-Flush™ safe to use?

A: Diversi-Flush™ is safe, nontoxic, and residue free. In addition, Diversi-Flush™ conforms to EPA's Significant New Alternatives Program (SNAP) standards.

Q: Is Diversi-Flush™ HAZMAT?

A: Diversi-Flush™ is not HAZMAT for storage or ground transportation.

Q: What is the advantage of the reusable injector tank?

A: 1. The reusable tank lowers cost since you only need to buy the Diversi-Flush™ refill cans.
2. Pre-charged cans include refrigerant propellants which are more expensive to use than nitrogen.
3. The trigger assembly allows for infinite control of dosage insuring more economical use of the solvent.
4. Using nitrogen as the propellant is less expensive and more environmentally friendly than using HFC-134A. HFC-134A is a powerful greenhouse gas. One kilogram of HFC-134A has the same global warming impact as 1,430 kilograms of carbon dioxide (<http://www.epa.gov/cpd/mac/service>).

Q: Can the injector tank be over pressurised during nitrogen pressurisation?

A: Over pressurisation is highly unlikely but possible. The injector valve has a reseating pressure relief safety valve set at 200 psi. This helps prevent potential bursting and resultant injury.

Q: What if I don't require the entire can of Diversi-Flush™ Solvent to clean a system or line set?

A: The injection nozzle allows you to control the dose rate and any left over solvent can be stored in the injector for future use.

Q: How does the dose rate for Diversi-Flush™ for burnouts and retrofits compare with the competitors?

A: For R22 conversions, we recommend 3-second bursts of solvent. A 16-ounce (480ml) can of Diversi-Flush™ will treat up to 500 feet (127 metres) of liquid line. For burnouts, we recommend 2-3 oz. (30 to 60 ml) per ton. Diversi-Flush™ uses less solvent per application than Nu-Calgon. Treatment results will vary depending on the application and conditions of the line set when serviced.

Q: Why do you recommend only charging the injector tank to 50psi, then injecting in 3 second bursts?

A: Tests are conclusive that injecting the solvent at lower pressure assures longer solvent to oil contact time. In addition, the smaller volume delivered in short bursts assists in completely dissolving contaminants. In this case, less is better.

Q: Is nitrogen necessary for use with Diversi-Flush™?

A: Nitrogen is used as the propellant for Diversi-Flush™. Nitrogen is required with all flushing systems to purge any residual solvent and contaminants through the system.

Q: Do pre-charged canister systems dispense 100% of the flushing solvent?

A: In many cases pre-charged canister systems will not fully dispense the flushing solvent depending on temperature. At lower temperatures, the R-134a propellant provides less pressure and may leave solvent in the canister. The Diversi-Flush™ system allows contractors to add additional nitrogen if there is still solvent left, regardless of temperature.



DiversiTech Maintenance Product Range

DiversiTech's specialist range of maintenance and cleaning products are designed to specifically meet the needs of the British air conditioning and refrigeration engineer. The range encompasses a broad selection of options and solutions to meet all manner of applications and situations.

The flagship of the range is Pro-Universal, a powerful and sophisticated coil cleaner with no parallel in the market. Pro-Universal not only effectively cleans and degreases the coil but a special active agent serves as a protectant to guard against future dirt build up and facilitate subsequent maintenance. The development of Pro-Universal is the culmination of over 20 years of experience, gained through the manufacture and supply of coil cleaners and related products to the demanding American Heating, Ventilation and Air Conditioning industries.

All products are formulated in a state-of-the-art manufacturing facility and a dedicated product development team of skilled chemists is in place to further push the boundaries and develop the Pro-Universal of tomorrow. In particular, not only is DiversiTech developing chemicals to clean and maintain equipment even more effectively but also to be safer and more friendly to the user and the environment alike.

DiversiTech is able to provide technical assistance and advice, as well as a full suite of technical information and safety data sheets. Please see www.diversitech-uk.com for further details.

DiversiTech Maintenance Products are distributed exclusively through Pump House. All of the products featured in this catalogue are stocked in Pump House's Nottingham warehouse. Samples of the Pro range of concentrates and Zap range of aerosols are also available.

A. Jernigan
Technical Director

KEY

Selecting the appropriate product for a specific application is vital. To make this process easier, DiversiTech has adopted a series of symbols to assist the user. These can be found on the front of the product label and in product literature.



Suitable for use with condensing coils situated outdoors.



Suitable for use with condensing coils situated in a semi-outdoor environment e.g. warehouse or industrial facility.



Suitable for use with indoor evaporator coils.



Suitable for cleaning ice machines.



Suitable for use as bubble up leak detector.

All DiversiTech maintenance products should be used with care and by professionals only. However, DiversiTech has adopted a simple grading system to advise the user of the degree of caution that should be adopted with each product.

Each product in the Pro and G2G ranges have colour coded tops. Dots of the same colour also appear on the product label. The colour of the dot denotes the hazardous nature of the product as follows:



Exercise extreme caution due to the hazardous nature of the product.



Caution should be exercised.



User and environmentally friendly.

Regularly planned maintenance of air conditioning equipment offers the following benefits:

- *Allows the equipment to operate efficiently. Contaminated and dirty equipment affects the heat transfer capability of the coil and limits cooling capacity. Inefficient equipment consequently consumes far more energy to achieve the same level of cooling. Regularly cleaned equipment will therefore incur lower running costs.*
- *Prolongs the life of equipment by protecting important components.*
- *Improves indoor air quality for the inhabitants of the building.*
- *Removes bacteria which can be spread through contaminated air handling equipment.*
- *Makes the cleaning process easier and quicker on an on-going basis.*

Maintenance Product Application and Selection Chart

PRODUCT TYPE	COIL CLEANERS			OTHER PRODUCTS		
	Condenser Cleaning	Condenser & Evaporator Cleaning	Evaporator Cleaning & Disinfecting	Leak Detection Products	Odour Elimination Products	Ice Machine Cleaning
Pro range (5 litre concentrates) 	Pro-Foam+ Pro-Universal	Pro-Clean Pro-Universal	Pro-Care Pro-Universal			Pro-Cool
G ₂ G range (1 litre ready mixed) 	G ₂ G-Foam+ G ₂ G-Universal	G ₂ G-Universal	G ₂ G-Care G ₂ G-Universal	G ₂ G-Bubble+	G ₂ G-Smell-Buster	
Aerosol range 	Grease-Buster Grime-Buster	Zap-Universal Coil-Cleanse	Coil-Care Fresh-Coil	Leak-Seek		
Granular Coil Cleaner 		Gran-Univ				
Various 					Smell-Buster & Smell-Buster- Small tablets	Spro-Cool 500ml twin shot bottle

The principal part of the range offers three practical options to suit the varying needs and preferences of the engineer:

PRO RANGE - 5 LITRE CONCENTRATES

High performance concentrates for the industry professional, packaged in economic 5 litre containers.



GOOD 2 GO (G₂G) RANGE - 1 LITRE PRE-MIXED

G₂G (GOOD 2 GO): Pre-mixed 1 litre sprayers: quick, easy and no hassle.



ZAP RANGE - AEROSOL COIL CLEANERS

400ml and 500ml aerosols, ideal for zapping grease and dirt in the tightest of situations.



PRO-UNIVERSAL™ GRANULAR COIL CLEANER™

FEATURE

Non Hazardous to Transport or Store

In its dry form, Pro-Universal™ Granular Coil Cleaner™ will not damage expensive equipment, parts, or tools in the back of the service van. Leaking jugs of concentrated liquid coil cleaner can cause serious and expensive damage to equipment, parts, tools, or customers property.

Lower freight and handling costs without hazardous material surcharges.

Effective

Pro-Universal™ Granular Coil Cleaner™ is a powerful multi-purpose cleaner to remove tough, caked on dirt on both indoor and outdoor units. Cleans with all the power of liquid concentrates. Most liquid concentrates are compounded from dry ingredients. Pro-Universal™ Granular Coil Cleaner™ engineers the dry ingredients so you just add water.

Tough Polymer Jar

Tough polymer jar protects products from punctures.

- Pro-Universal™ Granular Coil Cleaner™ has child resistant safety cap.
- Pro-Universal™ Granular Coil Cleaner™ has color coded cap and package.

Lightweight Product, Compact Package

Easier to carry to the job.

Takes one-third the space in the back of the van versus liquid concentrate.

Rapidly Dissolves

Granules dissolve rapidly and completely. Pro-Universal™ Granular Coil Cleaner™ contains the same unique cleaning agents as concentrated liquids that dissolve rapidly in water of widely varying hardness content. Compatible with all water qualities.



Pro-Universal™
Granular Coil Cleaner™

Catalogue No.
GRAN-UNIV-GB



Pro-Universal™ Granular Coil Cleaner™ takes 2/3 less space in the service van than conventional concentrated liquid coil cleaners.

Pro-Universal™ Granular Coil Cleaner™ weighs 2/3 less than conventional coil cleaners and is much easier to carry around a job site.



PRO COIL CLEANERS - 5l - CONCENTRATED

Pro-Universal™

Universal indoor and outdoor condenser and evaporator coil cleaner

- Non-foaming and safe for coils – unique fin-friendly formula removes the dirt but does not attack the aluminium and therefore maximising heat transfer and extending equipment life.
- Removes sources of contamination which cause build up slime and sludge in the drain pan.
- Leaves a mono-molecular coating on the coil to protect it and make subsequent cleaning easier.



Pro-Universal™ 5 litre and G2G Universal 1 litre versions are NSF registered as Food Safe for use in food preparation areas.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-UNIV-GB	Pro-Universal™, 5l	EA	4
SPRO-UNIV-GB	Pro-Universal™ mini, 500ml	EA	12
G2G-UNIV-GB	G ₂ G™ Good 2 Go pre-mixed Pro-Universal™, 1l	EA	12
GRAN-UNIV-GB	Pro-Universal™ Granular Coil Cleaner™, makes 8l	EA	12
ZAP-UNIV-GB	Pro-Universal™ Aerosol Spray, 500ml	EA	12

Pro-Care

Evaporator coil cleaner and disinfectant

- Disinfects and deodorises the evaporator coil and drain pan, controlling bacteria and microbes.
- Eliminates slime and contamination.
- Protects coil for up to six months.
- Approved to BS/EN 1276 Bactericide as bactericidal against MRSA, Legionella, pneumophila, Pseudomonas aeruginosa, Escherichia coli and Escherichia hirae.
- Approved to BS/EN 1650 Fungicide as fungicidal against Aspergillus, niger and Candida albicans.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-CARE-GB	Pro-Care, 5l	EA	4
SPRO-CARE-GB	Pro-Care mini, 500ml	EA	12

Pro-Green+

Environmentally friendly universal coil cleaner

- Non-toxic, non-corrosive.
- Safer for user and environment.
- Fin-friendly, will not damage coils.
- Effective on indoor and outdoor coils.
- Readily biodegradable.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-GREEN+-GB	Pro-Green+, 5l	EA	4



Pro-Clean

Alkaline based evaporator and condensing coil cleaner

- Controlled foaming action so suitable for use with indoor equipment.
- Especially effective with baked on grease and oils.
- Neutralises obnoxious odours found in air handling equipment.
- Biodegradable and environmentally friendly.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-CLEAN-GB	Pro-Clean, 5l	EA	4



Pro-Foam+

Alkaline based condensing coil cleaner

- Maximum foaming action to reach imbedded dirt.
- Cleans and brightens coils.
- Does not leave salty deposits on the coil after rinsing.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-FOAM+-GB	Pro-Foam+, 5l	EA	4



G₂G COIL CLEANERS - 1l - PRE-MIXED

G₂G Green+

Pre-mixed environmentally friendly universal coil cleaner

- Non-toxic, non-corrosive.
- Safer for user and environment.
- Fin-friendly, will not damage coils.
- Effective on indoor and outdoor coils.
- Readily biodegradable.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
G2G-GREEN+-GB	G ₂ G Green+, 1l	EA	12



G₂G Foam+

Pre-mixed alkaline based condensing coil cleaner

- Maximum foaming action to reach imbedded dirt fast.
- Cleans and brightens coils.
- Does not leave salty deposits on the coil after rinsing.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
G2G-FOAM+-GB	G ₂ G Foam+, 1l	EA	12



G₂G COIL CLEANERS - 1l - PRE-MIXED

G₂G Universal

Pre-mixed universal indoor and outdoor coil cleaner

- Non-foaming and safe for coils – unique fin-friendly formula removes the dirt but does not attack the aluminium and therefore maximising heat transfer and extending equipment life.
- Full strength Pro-Universal™ coil cleaner in a convenient trigger pack.
- Removes sources of contamination which cause build up slime and sludge in the drain pan.
- Leaves a mono-molecular coating on the coil to protect it and make subsequent cleaning easier.



NSF registered as Food Safe for use in food preparation areas.

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
G2G-UNIV-GB	G ₂ G Universal, 1l	EA	12

NSF


G2G-UNIV-GB

G₂G Care

Pre-mixed evaporator coil cleaner and disinfectant

- Disinfects and deodorises the evaporator coil and drain pan, controlling bacteria and microbes.
- Eliminates slime and contamination.
- Protects coil for up to six months.
- Approved to BS/EN 1276 Bactericide as bactericidal against MRSA, Legionella, pneumophila, Pseudomonas aeruginosa, Escherichia coli and Escherichia hirae.
- Approved to BS/EN 1650 Fungicide as fungicidal against Aspergillus, niger and Candida albicans.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
G2G-CARE-GB	G ₂ G Care, 1l	EA	12

Approved to
BS/EN 1276
as a bactericide



G2G-CARE-GB

AEROSOL COIL CLEANERS

Pro-Universal™

Aerosol Universal indoor and outdoor condenser and evaporator coil cleaner

- Non-foaming and safe for coils – unique fin-friendly formula removes the dirt but does not attack the aluminium and therefore maximising heat transfer and extending equipment life.
- Removes sources of contamination which cause build up slime and sludge in the drain pan.
- Leaves a mono-molecular coating on the coil to protect it and make subsequent cleaning easier.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
ZAP-UNIV-GB	Pro-Universal™ Aerosol Spray, 500ml	EA	12



ZAP-UNIV-GB

Grime Buster

Aerosol non-acid foaming condensing coil cleaner

- Clean dirt, grease and oil with a heavy duty foam detergent.
- Blasting nozzle separates materials from surfaces and reaches into tight areas.
- Foams quickly and effectively.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
GRIME-BUSTER-GB	Grime Buster, 500ml	EA	12



GRIME-BUSTER-GB

Grease Buster

Aerosol solvent-based condensing coil cleaner

- Clean dirt, grease and oil easily and effectively.
- Blasting nozzle separates materials from surfaces and reaches into tight areas.
- Non-flammable and non-conductive.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
GREASE-BUSTER-GB	Grease Buster, 400ml	EA	12



GREASE-BUSTER-GB

Fresh-Coil

Indoor coil cleaner

- Non-acid, non-caustic.
- Contains no CFCs or ozone depleters.
- Includes spray nozzle and hose to reach the most difficult to get to areas.
- Foaming formula cleans coils to restore performance.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
FRESH-COIL-GB	Indoor aerosol coil cleaner, 355ml	EA	12



FRESH-COIL-GB

Coil-Care

Coil-Care is a safe and effective evaporator cleaner and disinfectant formulated to contain a bactericide and fungicide. Coil-Care removes unpleasant odors. This non-rinse product means you can spray and walk away!



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
COIL-CARE-GB	Evaporator Cleaner and Disinfectant, 500ml	EA	12



COIL-CARE-GB

COIL PROTECTOR

Coil Guard™

Ideally used in coastal areas, where salt air accelerates rust and decay. Highly recommended for use in all geographical areas to prolong the life of a unit. When applied properly, Coil Guard™ dries quickly and immediately resists salt spray, alcohol, acids, and soap solutions. Weather will not blacken it. Coil Guard™ has high dielectric properties and has no effect on heat transfer. Our blue tinted product is used to ensure complete coverage of coating.



CG-AER

CATALOGUE NO.	DESCRIPTION	UOM	ORDER MULTIPLE
CG-AER	Clear Coil Guard™ – 20 oz. Aerosol	EA	12
CGB-AER	Blue Coil Guard™ – 20 oz. Aerosol	EA	12

CLEANERS

Drain-Purge

Drain-Purge is a heavy duty single-shot condensate drain cleaner. Drain-Purge works by penetrating standing water and sinking to the point where the organic blockage is inhibiting the drain. The highly effective formula dissolves the blockage. Safe to use with condensate pumps.



DRAIN-PURGE

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DRAIN-PURGE	Condensate Drain Cleaner, 250ml	EA	12

Case-Care

Case-Care is a hard case and diffuser cleaner that is safe and effective for use on all fan set units. Use Case-Care to remove smudge marks from fingers on cases and cassettes as well as nicotine, grease and other soils.



CASE-CARE-GB

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
CASE-CARE-GB	Case and Diffuser Cleaner, 500ml	EA	12

ODOUR NEUTRALISERS/ELIMINATORS

Smell-Buster

A unique odour eliminator, not a perfume or a cover-up. It actually removes unpleasant odours from the air. Smell-Buster eliminates odours caused by smoke, mould, mildew, cat litter and pets, as well as the noxious smells created by ammonia, hydrogen sulphide and other chemicals. Easy to use and has a pleasant, fresh odour. Available in 1 Litre liquid Good to Go (G₂G) trigger spray bottle, 60 gram or 12 gram tablets and a 225 gram tray.



G2G-SMELL-BUSTER-GB

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
SMELL-BUSTER-SMALL-GB	12 gram tablet, 10 pack box	EA	9
SMELL-BUSTER-GB	60 gram tablet, 2 pack box	EA	9
SMELL-BUSTER-8-GB	225 gram tray	EA	12
G2G-SMELL-BUSTER-GB	Trigger spray, 1l	EA	12

LEAK DETECTORS

Leak-Seek

Leak-Seek is a leak detector spray that when applied, creates long lasting bubbles that are ideal for identifying slow low pressure leaks. Leak-Seek produces fast and accurate results by clinging to surfaces – even upside down – and contains fluorescent to aid visibility. Leak-Seek is alcohol and solvent free.



LEAK-SEEK-GB

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
LEAK-SEEK-GB	Leak Detector Spray, 400ml	EA	12

G₂G Bubble+

Bubble up leak detector

- High bubbling leak detector.
- Excellent viscosity – clings to surfaces.
- Easy clean up with water.
- Easy to use.
- Minimum residue.



G2G-BUBBLE+-GB

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
G2G-BUBBLE+-GB	G ₂ G Bubble+, 1l	EA	12

LIME SCALE REMOVER

Pro-Scale

Lime Scale Remover

Pro-Scale removes scale, slime and algae buildup from heat exchangers, cooling towers, piping and condensers. Pro-Scale increases system capacity, increases system efficiency, and reduces head pressure. No other lime scale remover is so quick and effective!



PRO-SCALE-GB

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-SCALE-GB	Pro-Scale, 5l	EA	4

PRO-TREAT® – DRAIN PAN TABLETS AND STRIPS

Tablets

- Unique polymer formula prevents condensate scum and scale build ups.
- Maintains condensate flow and prevents drain pan overflow.
- Long lasting due to special time release effect – lifespan of up to 90 days.
- 100% active. Completely water soluble so no residue or waste.
- Non-toxic.



PRO-TREAT

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-TREAT	Pro-Treat®, Pack of 12 tablets	EA	12
PRO-TREAT-2PACK	Pro-Treat®, Pack of 2 tablets	EA	1

Pro-Treat® 151 Premium Condensate Drain Pan Treatment

Pro-Treat® 151 premium tablets penetrate and help remove sludge that can plug drain pans and drain lines and foul humidifier pans. Kills odors associated with slime and sludge, minimizing maintenance problems from overflow and water damage caused by fouled pans, plugged traps, or drain lines. Tablets are 100% soluble, easy-to-use, and do not form any deposits in the pan or drain line. Approved for computer rooms. Dosage: 1 tablet per 3 tons each month. PROTREAT-151 is EPA registered.



PROTREAT-151

CATALOGUE NO.	DESCRIPTION	UOM	ORDER MULTIPLE
PROTREAT-151	Pro-Treat® 151 Premium Drain Pan Treatment – 100 Tablets/Jar	EA	12

Strips

Pro-Treat® Pan Strips kill odour causing bacteria and last up to 6 months. Use in the primary drain pan of cooling units such as air conditioners and refrigerators. The strips control foul-smelling odours caused by mildew, fungi, bacteria, algae, and slime. For use in hotels, schools, colleges, hospitals, nursing homes, airports, and many other locations.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PS-075	Pan Strips for up to 2.6 kW, 10 strips/pack	EA	1
PS-01	Pan Strips for 3.5 to 7 kW, 10 strips/pack	EA	1
PS-03	Pan Strips for 10.5 to 17.5 kW, 6 strips/pack	EA	1
PS-07	Pan Strips for 22.5 to 42 kW, 2 strips/pack	EA	1
PS-20	Pan Strips for 70 to 87.5 kW, 1 strip/pack	EA	1
PS-40	Pan Strips for 140 to 175 kW, 1 strip/pack	EA	1

FLUSHING PRODUCTS

Diversi-Flush™ HVAC Flushing Solvent

A flushing solvent for A/C and refrigeration systems formulated for refrigerant conversions and compressor burnouts. Compatible with all refrigerants and compressor oils. All solvents in Diversi-Flush™ are non-VOC and conform to EPA SNAP standards. Has low toxicity, is non-flammable and residue-free.

The Diversi-Flush™ injector is available in a kit with a 480ml can of solvent. Solvent refills are available separately. The kit makes servicing quick, easy, and safe, as well as assuring you get to the job site with all necessary hardware in hand for 1-stop servicing.

The kit includes: 480ml container of Diversi-Flush™ solvent, refillable Diversi-Flush™ injector tool, pressure tank with a pressure relief valve for added safety, large rubber adapter that accommodates up to 29mm copper pipe, Diversi-Flush™ line set adapter, and a service hose.



PF-KIT-EU



PF-ADAPTER

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PF-KIT-EU	Diversi-Flush™ HVAC Flushing Solvent Kit	EA	6
PF-16-EU	Diversi-Flush™ HVAC Flushing Solvent Refill	EA	6
PF-ADAPTER	Diversi-Flush™ Line Set Adapter	EA	6

SPRAYERS

Power Sprayer

DiversiTech's Power Sprayer makes coil cleaning easier and faster! Designed as a backpack sprayer, it holds up to 15 litres of coil cleaning solution. The battery powered unit will spray continuously for 10 hours on a single charge. Included are three different nozzles to give you the right spray for any situation.

It also features: padded backpack straps for a comfortable fit, plug-in charger for fast recharging, a convenient center mount handle, an extra long spray wand with curved tip for accurate application, and a large on/off valve which can lock in position for easier spraying of big jobs. The large tank opening also makes it easy to add coil cleaner and mix to the correct ratio. The Power Sprayer is compatible with all DiversiTech coil cleaners.

Includes plug-in battery charger with a 2 pin Euro (CEE 7/16) plug.



PS-1-EU

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PS-1-EU	Battery powered/rechargeable backpack sprayer for coil cleaning	EA	1
PS-1-UK	Battery powered/rechargeable backpack sprayer for coil cleaning with UK plug	EA	1
PS-1W	Replacement Wand for Power Sprayer	EA	1

All Purpose Sprayer

Has a 28" (71cm) flexible hose and easy-to-carry handle. Lightweight and versatile. Best for the really big jobs in hard-to-reach places. Adjustable nozzle will atomise any low viscosity liquid. Will adjust from a mist to a 12' 3.65m) jet stream or anything in between. Ideal for spraying water treatment chemicals.



BS-64

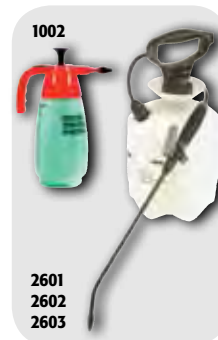
CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
BS-64	Sprayer, 3.8l	EA	1

Compression Sprayers

Acid impervious poly design with a full 5 year warranty.

The Hand-Held Sprayer has a 48 oz. (1.4l) capacity, perfect for small areas.

The pump up sprayer has a 36" (91cm) reinforced hose, shut-off with lock-on feature for continuous spraying, a 2-piece nozzle that's detachable for easy cleaning and fits directly to the shut-off or extension wand.



1002

2601
2602
2603

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
1002	Hand Held Sprayer (1.4l)	EA	1
2601	1 Gallon Wand Sprayer (3.8l)	EA	1
2602	2 Gallon Wand Sprayer (7.4l)	EA	1
2603	3 Gallon Wand Sprayer (11.4l)	EA	1

Dial-a-Mix Coil Gun

Save time and money by dialing in the exact mix ratio to properly clean the coil. This gun features 5 mix ratios, a 1.9 litre capacity bottle and a quick disconnect for fast and easy rinsing.



540-GUN

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
540-GUN	Dial-a-Mix Coil Gun (1.9l)	EA	1

DRAIN PAN SEALANT

Pan-Kote Heavy Duty Drain Pan Patch

A super-durable rubberized coating used to fill-in and patch HVAC drain pans. Seals out rust and corrosion. Stays flexible in variable weather conditions.



641-14

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
641-14	Pan-Kote Drain Pan Patch, 420ml Aerosol	EA	12

Pan-Patch™

Pan-Patch™ is a two part epoxy coating with anti-microbial additives designed for HVAC applications. It is a self leveling formula that is ideal in a damp or wet environment. Pan-Patch™ resists corrosion and stops pan leaks without replacing the pan. Light gray in color, one gallon covers about 160 square feet with 10 mil thickness.



CATALOGUE NO.	DESCRIPTION	COVERAGE	UOM	ORDER MULTIPLE
PANPATCH-BAG	Pan-Patch™ Pan Sealant – bag, pack of 10	8 sq. ft.	PK	1
PANPATCH-32	Pan-Patch™ Pan Sealant – 1 quart	40 sq. ft.	EA	9
PANPATCH	Pan-Patch™ Pan Sealant – 1 gallon	160 sq. ft.	EA	4

ACID TEST AND PREVENTION

Acid Eliminator

Acid Eliminator neutralises and prevents acids that form due to refrigerant and lubricant breakdown. Fast acting and easy to use. Helps prevent system breakdown.



ACID-ELIM

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
ACID-ELIM	Acid Eliminator, 118ml	EA	12

Acid Test Kit™

- Effective – Detects acid in refrigeration oil.
- Convenient – One step test means no chemicals to mix.
- Simple – Easy to evaluate. Colour change indicates acidity; colour intensity reveals the amount of acid present in the oil sample.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
ATK-4	Acid Test Kit for Refrigeration Oil, 4 per pack	EA	1
ATK-1	Acid Test Kit for Refrigeration Oil, 1 per pack	EA	1
ATK-1P	Acid Test Kit for POE Oil, 1 per pack	EA	1

Pro-Thaw™

Pro-Thaw™ chemically dries all refrigerants, methyl chloride and methylene chloride. Frees up systems that are frozen due to moisture contamination in just 5 minutes.



PRO-THAW

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-THAW-1	Pro-Thaw, 29.6ml	EA	12
PRO-THAW	Pro-Thaw, 118ml	EA	12

ICE MACHINE CLEANER

Pro-Cool

Liquid ice machine cleaner

- Nickel and metal safe.
- Quickly removes soil and minerals.
- No noxious odour.



PRO-COOL-GB

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PRO-COOL-GB	Pro-Cool, 5l	EA	4
SPRO-COOL-GB	Pro-Cool mini, 500ml	EA	12

REFRIGERATION OIL

Pro-Lube-POE™ Polyolester

Specialty Chemical POE is custom formulated for use in refrigeration compressors. This series contains no ozone depleting substances and is compatible with new HFC refrigerants as well as existing CFC and HCFC refrigerants. In addition, POE is compatible with traditional mineral oil lubricants.



POE32-32

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
POE32-32	Polyolester SUS150 ISO32, 946 ml	EA	12
POE68-32	Polyolester SUS300 ISO68, 946 ml	EA	12

VACUUM PUMP OIL

Pro-Lube-VAC™ Vacuum Pump Oil

Specialty Chemical VP-68 Premium Vacuum Pump Oil is now based on a highly refined paraffinic based stock. This new improved formulation is lighter in colour and provides better viscosity and oxidation stability than the previous formulation. VP-68 provides excellent cold start performance and is formulated to meet minimum moisture content specifications.



VP-68-01

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
VP68-32	Pro-Lube-VAC™ Vacuum Pump Oil, 1l	EA	12
VP68-01	Pro-Lube-VAC™ Vacuum Pump Oil, 3.8l	EA	4



DIVERSITECH LAUNCH ACCREDITED MAINTENANCE PRODUCTS TRAINING PROGRAMME

With today's increasing focus on energy efficiency, reduced running costs and providing safer and cleaner environments, regular and correct cleaning and maintenance of refrigeration and air conditioning equipment is more important than ever.

Bearing this in mind, DiversiTech is delighted to announce the first ever manufactures approved and accredited maintenance products training programme for its distributors.

BACKGROUND

Most people working in the Refrigeration and Air Conditioning industry will acknowledge that cleaning and maintaining equipment should be done but there are lots of different products out there and selecting the most appropriate and cost effective product for any given application can be difficult and confusing leading to questions like:

- Which is best, an acid or an alkaline based cleaner?
- Do I need a foaming or a non-foaming cleaner?
- Does the product need rinsing?
- Is it better to use a ready mixed product or a concentrated product?
- What product is needed to control and remove bacticides and fungicides?
- Which is the best product to use in food preparation areas?
- Which product will not damage my equipment?
- What is the best solution to bad smells from my AC unit?

These and many other questions are asked by both service contractors and end users alike and finding out the right answers and getting the best advice can be a problem.

THE DIVERSITECH SOLUTION

The DiversiTech Accredited Training Programme will ensure that the staff at our distributors, who have been through and passed the programme, have the necessary training and product knowledge to discuss customer's cleaning and maintenance requirements and can offer the most appropriate advice.

In addition they will also have access to the DiversiTech technical department with over 20 years knowledge and experience in dealing with and finding solutions to, the most difficult and demanding coil cleaning and maintenance problems.

Once a person has been through the accreditation programme they will receive a framed certificate confirming their attendance and successful completion of the training programme and also a special tee shirt confirming their status as an Accredited Maintenance Products Advisor.

The DiversiTech Accreditation Programme is being run on an on-going basis throughout its network of wholesale distributors.

So next time you need any sort of specialist advice on a tricky cleaning or maintenance issue be sure to ask to speak to the DiversiTech Accredited Maintenance Products Advisor at your wholesale distributor.

For further information about the programme or to locate your nearest participating wholesaler please contact:

Tom Fitzsimons - Diversitech UK Product Manager,
Pump House, Glaisdale Drive East, Nottingham NG8 4LY
Tel: 0115 900 5858 / Fax: 0115 929 4468
E-Mail: tfitzsimons@diversitech.com



MAC- The Ultimate in Line Piercing Valves

Install valve. Connect charging hose. Service. That's all there is to it! MAC features Uniport: 1 connection for piercing and servicing. Sealed with refrigerant resistant "O" rings. Needle automatically back seats after servicing, leaving line free of restriction. Connect to tubing with 2 socket-head screws. (Hex wrench is included with each valve.) Needle depressor is inserted into head of needle. Wing cap is turned down easily by hand until line is pierced. Wing cap is removed and system may be serviced with any charging hose with built-in depressor. When hose is removed, spring loaded needle back-seats forming a leak proof seal. Needle depressor is discarded and wing cap forms extra precautionary seal.



QTM-1

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
QTM-1	MAC Line Piercing Valve – 6.35mm, 8mm, and 9.5mm O.D. Tube Size	EA	36
QTM-2	MAC Line Piercing Valve – 13mm, 16mm O.D. Tube Size	EA	36
QTM-3	MAC Line Piercing Valve – 4.75mm, 6.4 O.D. Tube Size	EA	1

Line Tap and Swivel Valves

The quick, safe and easy option to charge, discharge and test a line. Simply clamp on the DLT valve, attach the DCV-1G control valve, and pierce the line. The control valve features a port for connecting charging lines or gauges. The valve can swivel to any position and also be removed and re-used. These line tap valves are also difficult to tamper with as the line can only be accessed by using the special DCV-1G valve. They feature a specially formulated gasket which can withstand heat up to 150°C. Available in four sizes from 4.8mm O.D. tube size to 9.5mm. The DCV-1G is designed for use with all four sizes. DLT series line taps are also compatible with existing A-1 Components CV-1G valves and likewise DCV-1G valves are compatible with A-1 Components LT-series line taps.



DLT-4G

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DLT-3G	Line Tap Valve – 4.75mm O.D. tube	EA	1
DLT-4G	Line Tap Valve – 6.35mm O.D. tube	EA	1
DLT-5G	Line Tap Valve – 8mm O.D. tube	EA	1
DLT-6G	Line Tap Valve – 9.5mm O.D. tube	EA	1
DCV-1G	Valve for DLT Line Taps	EA	1

Insta-Tap Refrigerant Recovery Tool

The fastest, easiest way to evacuate refrigerant before disposal of a unit. Snaps onto refrigerant line for full and immediate flow. Punctures super large hole for maximum full flow discharge to recovery unit. One tool fits all sizes from 4.76mm to 22.2mm O.D. hard tubing. Replaceable needle.

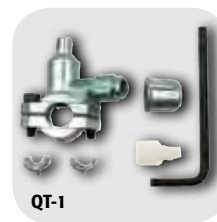


QT-100

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
QT-100	Quick-Tap-2 – 6.35mm, 8mm, and 9.5mm O.D. Tube Size	EA	1
QT-100N	Replaceable Hardened Steel Needle and Gasket	EA	1
QT-100G	Replacement Gasket Only	EA	3

Quick-Tap

Features a valve core in the 1/4" male port. Simply pierce the line and back seat the needle. Flow starts when depressor type charging hose is connected. Flow shuts off automatically when hose is removed. If valve core is not desired, it may be removed. Connect hose, pierce line and back seat needle. This method offers full unrestricted flow. Valve core can be removed or changed at any time without loss of refrigerant if needle is front seated.



QT-1

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
QT-1	Quick-Tap – 6.4mm, 8mm, 9.5mm O.D. Tube Size	EA	1
QT-2	Quick-Tap – 13mm, 16mm O.D. Tube Size	EA	1

Quick-Tap-2

Identical to Quick-Tap except that a nylon handle replaces the hex wrench. Phillips-head screws are used.



QTH-1

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
QTH-1	Quick-Tap-2 – 6.4mm, 8mm, 9.5mm O.D. Tube Size	EA	1
QTH-2	Quick-Tap-2 – 13mm, 16mm O.D. Tube Size	EA	1

Core Storer

All steel valve core remover and storage container. Completely knurled for easier grip, eliminating slippage when using with oily or greasy hands. Core Storer features a compartment for storing extra valve cores. Four replacement cores are included with each tool.



VCR-1

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
VCR-1	Core Remover and Storer	EA	1

Core Removal Tool

Designed to remove and replace valve cores without losing the refrigerant charge. Connects to any 1/4" male flare fitting. Saves time, saves refrigerant.



VCRT-1

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
VCRT-1	Core Removal Tool	EA	1

ACCESS FITTINGS

A convenient low-cost port for refrigeration servicing. May be installed in any position on either high or low side for charging, purging, quick testing or pressure checking. DiversiTech's access fittings have 1/4" SAE male flare access ports and include a quick seal cap and a stainless and brass special refrigerant valve core.

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
VA-3-346	3 Way Solder Type for 3/16" O.D. tube or 1/4" and 3/8" solder fitting, pack of 6	PK	1
VA-34	Straight Solder Type - 3/16" O.D.S. x 1/4" O.D.F., pack of 6	PK	1
VA-46	Straight Solder Type - 1/4" O.D.S. x 3/8" O.D.F., pack of 6	PK	1
VAU-24	Half Union - 1/8" MPT, pack of 6	PK	1
VAU-45	Half Union - 1/4" MPT, pack of 6	PK	1
VAX-4	Extended Copper Tube - 1/4" O.D. x 3/16" I.D., pack of 6	PK	1
VAX-4B	Extended Copper Tube - 1/4" O.D. x 3/16" I.D.	EA	100
VAX-4B-6	6" Extended Copper Tube - 1/4" O.D. x 3/16" I.D.	EA	100
VST-4	Swivel Tee w/Permanent Depressor - 1/4" Access on run x 1/4" female flare w/depressor on female swivel branch end, pack of 3	PK	1
VST-44	Swivel Tee w/Permanent Depressor - 1/4" Access on run x 1/4" access on "T" - female swivel on run, pack of 3	PK	1
VST-4X	Swivel Tee w/No Depressor - 1/4" Access on run x 1/4" female flare w/depressor on female swivel branch end, pack of 3	PK	1
VST-44X	Swivel Tee w/No Depressor - 1/4" Access on run x 1/4" access on "T" - female swivel on run, pack of 3	PK	1
VT-24	Threaded Tee - 1/8" MPT on branch, 1/4" flare x 1/4" flare access on run, pack of 3	PK	1
VT-46	Solder Tee Type - 1/4" ODS x 1/4" ODS, pack of 3	PK	1
VT-68	Solder Tee Type - 3/8" ODS x 3/8" ODS, pack of 3	PK	1
VT-810	Solder Tee Type - 1/2" ODS x 1/2" ODS, pack of 3	PK	1
VU-4	Female Flare Union - 1/4" female flare w/copper gasket, pack of 6	PK	1
VUR-4	Full Union - 1/4" O.D. flare tube w/forged flare nut, pack of 6	PK	1
VC-4	Flare Cap - 1/4", pack of 12	PK	1
VVC-1	Valve Core, pack of 6	PK	1
MSA-44	Adaptor - 1/4" female flare w/depressor x 1/4" MNPT, pack of 2	PK	1

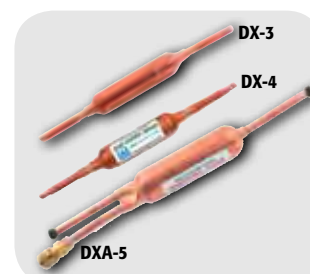


DRIERS AND CAPILLARY TUBING

Universal Spun Copper Driers

Manufactured with the latest generation molecular sieves compatible with more than 20 different types of refrigerants, including R-134A. They can be used in all hermetic and open refrigeration systems using CFC, HCFC and HFC gases and mixes such as commercial and domestic refrigerators, freezers and air conditioners ranging from 1/8 to 2.0 HP. Hermetically sealed with extended ends.

CATALOGUE NO.	OUTLET	INLET	DIAMETER GRAMS	LENGTH R12	DESSICANT R22	RECOMM. QUANTITY	TONNAGE	ORDER UOM	ORDER MULTIPLE
DX-3	1/4"	1/4"	3/4"	7-11/16"	10	1/3	1/2	EA	1
DX-4	1/4"	1/4"	1"	9-1/4"	20	3/4	1-1/2	EA	1
DXA-5	Multiple	1/4"	1"	9"	18	3/4	1-1/2	EA	1

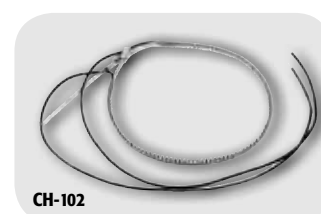


CRANKCASE/COMPRESSOR HEATERS

Crankcase/Compressor Heaters

Extends the life of air conditioners and refrigeration compressors. Corrosion resistant exterior. High temperature silicone rubber element and insulated leads. Wattage for each model matches compressor requirements. Moisture proof, easy to install. Nominal power consumption.

CATALOGUE NO.	RATED VOLTS	RATED WATTS	FITS COMOPRESSOR	MIN.	GIRTH DIMENSIONS MAX.	SHAPE	ORDER UOM	ORDER MULTIPLE
CH-102	240	60	Aspera: J	25-3/4"(65cm)	32-9/16"(83cm)	OVL	EA	1
CH-196	240	40	Copeland	19-7/8"(51cm)	26-5/8"(68cm)	RND	EA	1



BRASS FITTINGS

Short Machined Flare Nut



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DN1-3	3/16" Short Nut	EA	10
DN1-4	1/4" Short Nut	EA	10
DN1-5	5/16" Short Nut	EA	10
DN1-6	3/8" Short Nut	EA	10
DN1-8	1/2" Short Nut	EA	10
DN1-10	5/8" Short Nut	EA	10
DN1-12	3/4" Short Nut	EA	10
DN1-14	7/8" Short Nut	EA	5

Short Forged Flare Nut



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DNS4-4	1/4" Short Forged Flare Nut	EA	10
DNS4-6	3/8" Short Forged Flare Nut	EA	10
DNS4-8	1/2" Short Forged Flare Nut	EA	10
DNS4-10	5/8" Short Forged Flare Nut	EA	10
DNS4-12	3/4" Short Forged Flare Nut	EA	10
DNS4-14	7/8" Short Forged Flare Nut	EA	5

Flare Tee



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DT2-4	1/4" Flare Tee	EA	10
DT2-6	3/8" Flare Tee	EA	10
DT2-8	1/2" Flare Tee	EA	10
DT2-10	5/8" Flare Tee	EA	5

Cap



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DNS5-4	1/4" Cap	EA	10
DNS5-6	3/8" Cap	EA	10
DNS5-8	1/2" Cap	EA	10
DNS5-10	5/8" Cap	EA	10

Plug



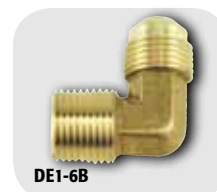
CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DP2-4	1/4" Plug	EA	10
DP2-6	3/8" Plug	EA	10
DP2-8	1/2" Plug	EA	10
DP2-10	5/8" Plug	EA	10

Flare x MPT Elbow



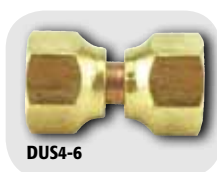
CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DE1-4B	1/4" Flare x 1/4" MPT Elbow	EA	10
DE1-6C	3/8" Flare x 3/8" MPT Elbow	EA	10
DE1-8D	1/2" Flare x 1/2" MPT Elbow	EA	10
DE1-12E	3/4" Flare x 3/4" MPT Elbow	EA	10

Flare x MPT Red Elbow



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DE1-6B	3/8" Flare x 1/4" MPT Red Elbow	EA	10
DE1-6D	3/8" Flare x 1/2" MPT Red Elbow	EA	10
DE1-8E	1/2" Flare x 3/4" MPT Red Elbow	EA	10
DE1-8C	1/2" Flare x 3/8" MPT Red Elbow	EA	10
DE1-10D	5/8" Flare x 1/2" MPT Red Elbow	EA	10
DE1-12D	3/4" Flare x 1/2" MPT Red Elbow	EA	10

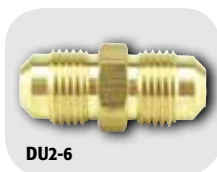
Flare x Flare Swivel Union



DUS4-6

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DUS4-4	1/4" Flare x 1/4" Flare Swivel Union	EA	10
DUS4-6	3/8" Flare x 3/8" Flare Swivel Union	EA	10
DUS4-8	1/2" Flare x 1/2" Flare Swivel Union	EA	10

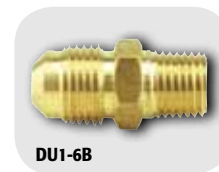
Flare Union



DU2-6

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DU2-4	1/4" Flare Union	EA	10
DU2-6	3/8" Flare Union	EA	10
DU2-8	1/2" Flare Union	EA	10
DU2-10	5/8" Flare Union	EA	10
DU2-12	3/4" Flare Union	EA	10
DU2-14	7/8" Flare Union	EA	5

Flare x MPT Union



DU1-6B

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DU1-4A	1/4" Flare x 1/8" MPT Union	EA	10
DU1-4B	1/4" Flare x 1/4" MPT Union	EA	10
DU1-6B	3/8" Flare x 1/4" MPT Union	EA	10
DU1-6C	3/8" Flare x 3/8" MPT Union	EA	10
DU1-6D	3/8" Flare x 1/2" MPT Union	EA	10
DU1-6E	3/8" Flare x 3/4" MPT Union	EA	10
DU1-8B	1/2" Flare x 1/4" MPT Union	EA	10
DU1-8C	1/2" Flare x 3/8" MPT Union	EA	10
DU1-8D	1/2" Flare x 1/2" MPT Union	EA	10
DU1-8E	1/2" Flare x 3/4" MPT Union	EA	10
DU1-10D	5/8" Flare x 1/2" MPT Union	EA	10
DU1-10E	5/8" Flare x 3/4" MPT Union	EA	10
DU1-12D	3/4" Flare x 1/2" MPT Union	EA	10
DU1-12E	3/4" Flare x 3/4" MPT Union	EA	10

Flare x FPT Union



DU3-8C

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
DU3-6C	3/8" x 3/8" Flare x FPT Union	EA	10
DU3-6D	3/8" x 1/2" Flare x FPT Union	EA	10
DU3-8C	1/2" x 3/8" Flare x FPT Union	EA	10
DU3-8D	1/2" x 1/2" Flare x FPT Union	EA	10
DU3-10D	5/8" x 1/2" Flare x FPT Union	EA	10
DU3-10E	5/8" x 3/4" Flare x FPT Union	EA	10

90 Degree Elbows (CxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C235-0002	3/8	EA	25
C235-0025	1/2	EA	25
C235-0050	5/8	EA	100
C235-0090	3/4	EA	25
C235-0100	7/8	EA	25
C235-0150	1-1/8	EA	10
C235-0215	1-3/8	EA	50
C235-0295	1-5/8	EA	35
C235-0390	2-1/8	EA	17
C235-0520	2-5/8	EA	20
C235-0650	3-1/8	EA	13

45 Degree Elbow (CxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C290-0002	3/8	EA	25
C290-0025	1/2	EA	25
C290-0050	5/8	EA	25
C290-0090	3/4	EA	25
C290-0100	7/8	EA	25
C290-0150	1-1/8	EA	10
C290-0215	1-3/8	EA	60
C290-0295	1-5/8	EA	40
C290-0390	2-1/8	EA	18
C290-0520	2-5/8	EA	20
C290-0650	3-1/8	EA	15

90 Degree Street Elbows (FxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C254-0002	3/8	EA	25
C254-0025	1/2	EA	25
C254-0050	5/8	EA	25
C254-0090	3/4	EA	25
C254-0100	7/8	EA	25
C254-0150	1-1/8	EA	10
C254-0215	1-3/8	EA	50
C254-0295	1-5/8	EA	35
C254-0390	2-1/8	EA	18
C254-0520	2-5/8	EA	20
C254-0650	3-1/8	EA	13

45 Degree Street Elbow (FxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C295-0002	3/8	EA	25
C295-0025	1/2	EA	25
C295-0050	5/8	EA	25
C295-0090	3/4	EA	25
C295-0100	7/8	EA	25
C295-0150	1-1/8	EA	10
C295-0215	1-3/8	EA	60
C295-0295	1-5/8	EA	40
C295-0390	2-1/8	EA	18
C295-0520	2-5/8	EA	20
C295-0650	3-1/8	EA	15

90 Degree Long Turn Elbows (CxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C242-0001	1/4	EA	25
C242-0002	3/8	EA	25
C242-0025	1/2	EA	25
C242-0050	5/8	EA	25
C242-0090	3/4	EA	25
C242-0100	7/8	EA	10
C242-0150	1-1/8	EA	10
C242-0215	1-3/8	EA	35
C242-0295	1-5/8	EA	25
C242-0390	2-1/8	EA	12
C242-0520	2-5/8	EA	16
C242-0650	3-1/8	EA	8

Street Elbow (FxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C272-0002	3/8	EA	25
C272-0025	1/2	EA	25
C272-0050	5/8	EA	25
C272-0090	3/4	EA	25
C272-0100	7/8	EA	10
C272-0150	1-1/8	EA	10
C272-0215	1-3/8	EA	35
C272-0295	1-5/8	EA	25
C272-0390	2-1/8	EA	12
C272-0520	2-5/8	EA	16
C272-0650	3-1/8	EA	8

Reducing Tee (CxCxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C460-0006	3/8 x 3/8 x 1/2	EA	-
C460-0031	1/2 x 1/2 x 5/8	EA	25
C460-0032	1/2 x 1/2 x 3/8	EA	25
C460-0033	1/2 x 1/2 x 1/4	EA	-
C460-0040	1/2 x 3/8 x 1/2	EA	-
C460-0041	1/2 x 3/8 x 3/8	EA	-
C460-0076	5/8 x 3/8 x 1/2	EA	-
C460-0056	5/8 x 5/8 x 1-1/8	EA	10
C460-0057	5/8 x 5/8 x 7/8	EA	10
C460-0059	5/8 x 5/8 x 3/8	EA	25
C460-0066	5/8 x 1/2 x 5/8	EA	25
C460-0067	5/8 x 1/2 x 1/2	EA	25
C460-0068	5/8 x 1/2 x 3/8	EA	-
C460-0087	5/8 x 5/8 x 3/4	EA	-
C460-0058	5/8 x 5/8 x 1/2	EA	25
C460-0092	3/4 x 3/4 x 7/8	EA	-
C460-0093	3/4 x 3/4 x 5/8	EA	-
C460-0094	3/4 x 3/4 x 1/2	EA	-
C460-0095	3/4 x 3/4 x 3/8	EA	-
C460-0098	3/4 x 5/8 x 5/8	EA	25
C460-0111	7/8 x 1/2 x 7/8	EA	-
C460-0119	7/8 x 5/8 x 1/2	EA	-
C460-0106	7/8 x 7/8 x 1-1/8	EA	10
C460-0107	7/8 x 7/8 x 5/8	EA	10
C460-0108	7/8 x 7/8 x 1/2	EA	10
C460-0109	7/8 x 7/8 x 3/8	EA	10
C460-0117	7/8 x 5/8 x 7/8	EA	10
C460-0118	7/8 x 5/8 x 5/8	EA	10
C460-0127	7/8 x 1/2 x 5/8	EA	-
C460-0180	1-1/8 x 5/8 x 1-1/8	EA	10
C460-0181	1-1/8 x 5/8 x 7/8	EA	10
C460-0169	1-1/8 x 7/8 x 1-1/8	EA	10
C460-0170	1-1/8 x 7/8 x 7/8	EA	10
C460-0171	1-1/8 x 7/8 x 5/8	EA	10
C460-0157	1-1/8 x 1-1/8 x 1-5/8	EA	25
C460-0158	1-1/8 x 1-1/8 x 1-3/8	EA	35
C460-0159	1-1/8 x 1-1/8 x 7/8	EA	10
C460-1498	1-1/8 x 1-1/8 x 3/4	EA	10
C460-0160	1-1/8 x 1-1/8 x 5/8	EA	10
C460-0161	1-1/8 x 1-1/8 x 1/2	EA	10
C460-0245	1-3/8 x 7/8 x 1-3/8	EA	35
C460-0246	1-3/8 x 7/8 x 1-1/8	EA	45
C460-0247	1-3/8 x 7/8 x 7/8	EA	50
C460-0234	1-3/8 x 1-1/8 x 1-3/8	EA	30
C460-0235	1-3/8 x 1-1/8 x 1-1/8	EA	50
C460-0237	1-3/8 x 1-1/8 x 5/8	EA	60
C460-0220	1-3/8 x 1-3/8 x 2-1/8	EA	10
C460-0221	1-3/8 x 1-3/8 x 1-5/8	EA	20
C460-0222	1-3/8 x 1-3/8 x 1-1/8	EA	40
C460-0223	1-3/8 x 1-3/8 x 7/8	EA	50
C460-0224	1-3/8 x 1-3/8 x 5/8	EA	50
C460-0339	1-5/8 x 7/8 x 1-5/8	EA	20
C460-0328	1-5/8 x 1-1/8 x 1-5/8	EA	20
C460-0330	1-5/8 x 1-1/8 x 1-1/8	EA	35
C460-0331	1-5/8 x 1-1/8 x 7/8	EA	40
C460-0315	1-5/8 x 1-3/8 x 1-5/8	EA	20
C460-0316	1-5/8 x 1-3/8 x 1-3/8	EA	30
C460-0302	1-5/8 x 1-5/8 x 2-1/8	EA	10

continued

Reducing Tee (CxCxC) continued

CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C460-0303	1-5/8 x 1-5/8 x 1-3/8	EA	25
C460-0304	1-5/8 x 1-5/8 x 1-1/8	EA	35
C460-0305	1-5/8 x 1-5/8 x 7/8	EA	35
C460-0306	1-5/8 x 1-5/8 x 5/8	EA	40
C460-0429	2-1/8 x 1-3/8 x 2-1/8	EA	10
C460-0431	2-1/8 x 1-3/8 x 1-3/8	EA	15
C460-0432	2-1/8 x 1-3/8 x 1-1/8	EA	20
C460-0414	2-1/8 x 1-5/8 x 1-5/8	EA	10
C460-0416	2-1/8 x 1-5/8 x 1-1/8	EA	20
C460-0397	2-1/8 x 2-1/8 x 2-5/8	EA	15
C460-0398	2-1/8 x 2-1/8 x 1-5/8	EA	10
C460-0399	2-1/8 x 2-1/8 x 1-3/8	EA	15
C460-0400	2-1/8 x 2-1/8 x 1-1/8	EA	18
C460-0401	2-1/8 x 2-1/8 x 7/8	EA	20
C460-0549	2-5/8 x 2-1/8 x 2-1/8	EA	15
C460-0531	2-5/8 x 2-5/8 x 2-1/8	EA	15
C460-0532	2-5/8 x 2-5/8 x 1-5/8	EA	20
C460-0533	2-5/8 x 2-5/8 x 1-3/8	EA	20
C460-0534	2-5/8 x 2-5/8 x 1-1/8	EA	25
C460-0535	2-5/8 x 2-5/8 x 7/8	EA	25
C460-0663	3-1/8 x 3-1/8 x 2-1/8	EA	13
C460-0664	3-1/8 x 3-1/8 x 1-5/8	EA	15

Tee (CxCxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C460-0001	1/4	EA	25
C460-0002	3/8	EA	25
C460-0025	1/2	EA	25
C460-0050	5/8	EA	50
C460-0090	3/4	EA	25
C460-0100	7/8	EA	20
C460-0150	1-1/8	EA	10
C460-0215	1-3/8	EA	35
C460-0295	1-5/8	EA	20
C460-0390	2-1/8	EA	10
C460-0520	2-5/8	EA	15
C460-0650	3-1/8	EA	10

Brass Union



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C657-0025	1/2	EA	100
C657-0050	5/8	EA	50
C657-0100	7/8	EA	100
C657-0150	1-1/8	EA	50

Reducer Coupling with Tube Stop (FxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C410-0007	3/8 x 1/4	EA	25
C410-0032	1/2 x 3/8	EA	25
C410-0033	1/2 x 1/4	EA	25
C410-0058	5/8 x 1/2	EA	25
C410-0059	5/8 x 3/8	EA	25
C410-0093	3/4 x 5/8	EA	25
C410-0094	3/4 x 1/2	EA	-
C410-0095	3/4 x 3/8	EA	-
C410-0149	7/8 x 3/4	EA	25
C410-0107	7/8 x 5/8	EA	25
C410-0108	7/8 x 1/2	EA	25
C410-0109	7/8 x 3/8	EA	25
C410-0159	1-1/8 x 7/8	EA	10
C410-1498	1-1/8 x 3/4	EA	25
C410-0160	1-1/8 x 5/8	EA	10
C410-0161	1-1/8 x 1/2	EA	20
C410-0222	1-3/8 x 1-1/8	EA	100
C410-0223	1-3/8 x 7/8	EA	100
C410-0224	1-3/8 x 5/8	EA	100
C410-0303	1-5/8 x 1-3/8	EA	100
C410-0304	1-5/8 x 1-1/8	EA	100
C410-0305	1-5/8 x 7/8	EA	100
C410-0306	1-5/8 x 5/8	EA	100
C410-0398	2-1/8 x 1-5/8	EA	50
C410-0399	2-1/8 x 1-3/8	EA	50
C410-0400	2-1/8 x 1-1/8	EA	50
C410-0401	2-1/8 x 7/8	EA	50
C410-0402	2-1/8 x 5/8	EA	50
C410-0531	2-5/8 x 2-1/8	EA	30
C410-0532	2-5/8 x 1-5/8	EA	30
C410-0533	2-5/8 x 1-3/8	EA	30
C410-0662	3-1/8 x 2-5/8	EA	15
C410-0663	3-1/8 x 2-1/8	EA	20
C410-0664	3-1/8 x 1-5/8	EA	20

Reducer Couplings with Tube Stops (CxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C165-0007	3/8 x 1/4	EA	25
C165-0032	1/2 x 3/8	EA	25
C165-0058	5/8 x 1/2	EA	25
C165-0059	5/8 x 3/8	EA	25
C165-0093	3/4 x 5/8	EA	25
C165-0094	3/4 x 1/2	EA	25
C165-0149	7/8 x 3/4	EA	25
C165-0107	7/8 x 5/8	EA	25
C165-0108	7/8 x 1/2	EA	25
C165-0159	1-1/8 x 7/8	EA	10
C165-0160	1-1/8 x 5/8	EA	10
C165-0161	1-1/8 x 1/2	EA	10
C165-1498	1-1/8 x 3/4	EA	10
C165-0222	1-3/8 x 1-1/8	EA	100
C165-0224	1-3/8 x 5/8	EA	100
C165-0303	1-5/8 x 1-3/8	EA	100
C165-0304	1-5/8 x 1-1/8	EA	100
C165-0398	2-1/8 x 1-5/8	EA	50
C165-0399	2-1/8 x 1-3/8	EA	50
C165-0400	2-1/8 x 1-1/8	EA	50
C165-0401	2-1/8 x 7/8	EA	50
C165-0531	2-5/8 X 2-1/8	EA	30
C165-0533	2-5/8 X 1-3/8	EA	30
C165-0662	3-1/8 X 2-5/8	EA	15
C165-0663	3-1/8 X 2-1/8	EA	20
C165-0664	3-1/8 X 1-5/8	EA	20
C165-0790	3-5/8 X 3-1/8	EA	-

Couplings with Tube Stops (CxC)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C165-0001	1/4	EA	25
C165-0002	3/8	EA	25
C165-0025	1/2	EA	25
C165-0050	5/8	EA	25
C165-0090	3/4	EA	25
C165-0100	7/8	EA	25
C165-0150	1-1/8	EA	10
C165-0215	1-3/8	EA	100
C165-0295	1-5/8	EA	60
C165-0390	2-1/8	EA	40
C165-0520	2-5/8	EA	50
C165-0650	3-1/8	EA	30

U-type Strap



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C947-0025	1/2	EA	100
C947-0050	5/8	EA	100
C947-0100	7/8	EA	100
C947-0150	1-1/8	EA	100
C947-0215	1-3/8	EA	100
C947-0295	1-5/8	EA	100
C947-0390	2-1/8	EA	100

Male Adapter (CxM)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C101-0005	3/8 x 1/2	EA	50
C101-0007	3/8 x 1/8	EA	50
C101-0025	1/2 x 3/8	EA	25
C101-0050	5/8 x 1/2	EA	25
C101-0057	5/8 x 3/4	EA	25
C101-0058	5/8 x 3/8	EA	50
C101-0100	7/8 x 3/4	EA	25
C101-0150	1-1/8 x 1	EA	10
C101-0159	1-1/8 x 3/4	EA	10
C101-0215	1-3/8 x 1-1/4	EA	10
C101-0222	1-3/8 x 1	EA	10
C101-0295	1-5/8 x 1-1/2	EA	10
C101-0390	2-1/8 x 2	EA	5

Cap



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C154-0002	3/8	EA	25
C154-0025	1/2	EA	25
C154-0050	5/8	EA	25
C154-0090	3/4	EA	25
C154-0100	7/8	EA	25
C154-0150	1-1/8	EA	10
C154-0215	1-3/8	EA	200
C154-0295	1-5/8	EA	140
C154-0390	2-1/8	EA	60
C154-0520	2-5/8	EA	30
C154-0650	3-1/8	EA	20

Female Adapters (CxF)



CATALOGUE NO.	ACR	ORDER UOM	ORDER MULTIPLE
C105-0025	1/2 x 3/8	EA	25
C105-0057	5/8 x 3/4	EA	10
C105-0050	5/8 x 1/2	EA	50
C105-0058	5/8 x 3/8	EA	25
C105-0059	5/8 x 1/4	EA	50
C105-0100	7/8 x 3/4	EA	10
C105-0107	7/8 X 1/2	EA	25
C105-0150	1-1/8 X 1	EA	10
C105-0159	1-1/8 X 3/4	EA	25
C105-0215	1-3/8 X 1-1/4	EA	10
C105-0295	1-5/8 X 1-1/2	EA	10
C105-0390	2-1/8 X 2	EA	1

DRIERS

Liquid Line Driers

High moisture and acid capacity. Maximum filtration capacity. Exceptional compatibility with new polyester oils. Compatible with all existing and new refrigerants and blends including 134a, 401A/B, 402A/B, 404A, 407A/B/C, 410A, 502, 507A. Spring loaded, molecular sieve and activated alumina. Solid copper sweat fittings. Powder paint exterior coating surpasses 500 hour ASTM salt spray test and resists corrosion. Eliminates concern of additive stripping. 032 MF liquid line dryer features 1/4" SAE steel female flare outlet. 500 psig design pressure.

CATALOGUE NO.	VIRGINIA KMP	DESCRIPTION	CONNECTION	CUBIC INCH	ORDER UOM	ORDER MULTIPLE
DAD053	WLD-053 Flare	Liquid Line Drier	3/8	5	EA	1
DAD053S	WLD-053 Sweat	Liquid Line Drier	3/8	5	EA	1
DAD083S	WLD-083 Sweat	Liquid Line Drier	3/8	8	EA	1
DAD163S	WLD-163 Sweat	Liquid Line Drier	3/8	16	EA	1
DAD164	WLD-164 Flare	Liquid Line Drier	1/2	16	EA	1
DAD164S	WLD-164 Sweat	Liquid Line Drier	1/2	16	EA	1



DAD053

Bi Flow Driers

The "DBF" Series is designed specifically for heat pump or reverse cycle application. External check valves are not required since they are incorporated within the filter dryer shell. The core design filters out contaminant particles down to 25 microns. 100% copper sweat or nickel plated flare fittings. Desiccant core provides reliable and effective, removal of solid contaminants, acid and moisture. Provides three times the filtration as the standard bi-flow. Core is cushioned in fiber gaskets to protect core and to insure trouble-free performance. Powder paint exterior coating surpasses 500 hour ASTM salt spray test and resists corrosion.

CATALOGUE NO.	VIRGINIA KMP	DESCRIPTION	CONNECTION	ORDER UOM	ORDER MULTIPLE
DBF083S	V2A-083 & Sweat	Bi Flow Drier	3/8	EA	1
DBF163S	V2A-163 Sweat	Bi Flow Drier	3/8	EA	1



DBF163S

SIGHT GLASSES

Sight Glass and Moisture Indicator provides a quick visual diagnosis of refrigerant and moisture levels within a system. The sight glass indicates if the system has the proper refrigerant level, a restricted dryer or excessive pressure-drop. The moisture indicator recognizes moisture within the system. Provides early warning that a potential failure exists resulting in corrosion, chemical damage, restricted flow, or even compressor failure. Etch-resistant glass with a simple colour comparison provides easy viewing and quick diagnostics. Flare models feature forged brass body and fittings for corrosion resistance. Sweat models feature copper fittings to permit solder installation without disassembly. Leak-proof design is compact and short in length to easily fit within a unit and provide accuracy in performance.

CATALOGUE NO.	VIRGINIA KMP	DESCRIPTION	CONNECTION	ORDER UOM	ORDER MULTIPLE
DPSG-3S	LDE-3-S	Sight Glass	3/8	EA	1
DPSG-4S	LDE-4-S	Sight Glass	1/2	EA	1
DPSG-5S	LDE-5-S	Sight Glass	5/8	EA	1
DPSG-7S	LDE-7-S	Sight Glass	7/8	EA	1



DPSG-3S

REFRIGERANT CHARGING

Insta-Charge

Faster, safer and more economical method for charging LIQUID refrigerant through the low pressure side of an air conditioning or refrigeration system, without damaging the compressor. Insta-Charge's unique internal restrictor reduces liquid flow to a level below the capacity of the compressor. Converts liquid refrigerant to a saturated vapor for fast entry. Insta-Charge connects directly to the refrigerant can or cylinder valve. Adds liquid tracing dye faster. Eliminates heating of refrigerant cylinder. Made of light weight aluminum. Sold at a fraction of the cost of other fast charging devices.



RC-1

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
RC-1	Insta-Charge	EA	1

FIN TOOLS

Multi-Head Fin-Tool

Conveniently straightens and cleans condenser and evaporator fins. Each nylon head slides into the master handle and tightens in place. The heads are designed to fit units with fin spacing of 4 – 24 fins per inch. Each head is engraved with its own size and is colour coded for fast identification. The heads are angled so that when inserted in the handle, the hand is a safe distance from the sharp fins. Fin-Tool heads may also be reversed in the handle, so that combing with an upward stroke (recommended method) may be done easily, with proper leverage. The master handle rests comfortably in a man-size grip, is rigid and long lasting.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
T-100	Kit (1 Handle and 6 Heads: 8, 9, 10, 11, 12, 14)	EA	12
T-1	Handle Only – Black	EA	1
T-8	Head 8 FPI – Orange	EA	3
T-10	Head 10 FPI – Natural	EA	3
T-12	Head 12 FPI – Green	EA	3
T-14	Head 14 FPI – Lt. Green	EA	3

Fin Brush

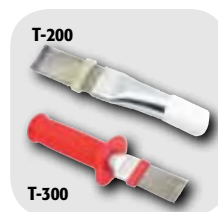
A plastic handled fin brush for cleaning condenser and evaporator fins.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
B-26	Fin Brush	EA	12

Fin-Tool

Long lasting metal fin straightener. Straightens and cleans condenser and evaporator fins. One tool for all units. The heavy duty spring wire bristles automatically adjust to ALL fin spacings. An exclusive tension adjustment band is featured to allow maximum rigidity and ease of operation. Straightens most severely damaged fins.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
T-200	Fin-Tool	EA	1
T-300	Fin-Tool with heavy duty bicycle handle	EA	12

SuperComb

Easier to grip, easier to use tool for straightening condenser and evaporator fins. Straightens 50% more fins in one stroke. Keeps hands a safe distance from fins. Easy to grip, strong, durable, heavy duty nylon. Colour coded for easy identification. Sold individually or 6 per set. Sales display available.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
T-400	Set of 6 – 1 Each: T-408, T-409, T-411, T-410, T-417, T-418	EA	1

MISCELLANEOUS TOOLS

Expando Adjustable Condenser Tube Cleaner

Fast, thorough, economical way to remove mineral scale and sludge from inside water-cooled condenser tubes. Saves time-consuming brushing or flushing. Expando attaches to a threaded rod which fits into an Expando handle or your electric drill. With a reaming action, the tough stainless steel blades scrape everywhere inside the tube, providing a free, unrestricted flow. Virtually clogproof, this tool may be expanded or reduced in diameter to fit scale deposits – not just the tube. Note: Use EC-810 couplings for connecting additional rods.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
E-5	Condenser Tube Cleaner – 5/16" to 3/8" I.D. Tubes	EA	1
E-6	Condenser Tube Cleaner – 3/8" to 1/2" I.D. Tubes	EA	1
E-8	Condenser Tube Cleaner – 1/2" to 5/8" I.D. Tubes	EA	1
EB-6	Blades for E-5 and E-6	EA	1
EB-8	Blades for E-8	EA	1
EC-56	Couplings for E-5 and E-6	EA	3
EC-810	Couplings for E-8 and E-10	EA	3
EE-30	Rods – 30" 1/4-28	EA	3
EE-48	Rods – 48" 1/4-28	EA	3
EH-1	Handle	EA	1

Compressor Carrying Tool

Makes light work of a heavy job. Powder coated, strong steel construction. Recommended for use with all compressors up to 15kw. Compatible with high efficiency compressors. Pick up a compressor from its box. Carry a compressor up a ladder. Now with black protective finish.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
ACT-6	Compressor Carrying Tool	EA	6

Magnetic Retrieving Tool

Extra high flux magnet for greater pickup. Super adjustable telescoping action. Bright chrome plated brass handle. Powerful magnet that will outperform the standard Alinco V Magnet 4 to 1. With the telescoping handle, you can pick up ferrous objects where your hand cannot reach. When closed, it fits neatly in your pocket for easy accessibility.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
540-601	Tool – Pocket Telescopic extends from 5-7/8"(12cm) to 25-9/16"(63cm) – Carded	EA	12

MISCELLANEOUS TOOLS cont'd

Telescopic Inspection Mirror

Fast, accurate visual inspection of hidden areas with an almost limitless number of positions. Double ball joint links swivel mirrors for viewing to 360°. Precision engineered links are made from tempered spring steel to withstand the stresses of constant repositioning. Moves freely, holds desired position.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
M-1	1-1/4" (32mm) Circular extends 6-1/4" (15.9cm) to 18-1/4" (46.4cm)	EA	12
M-2	2-1/4" (57mm) Circular extends 10" (25.4cm) to 14" (35.6cm)	EA	12
M-3	2-1/8" x 3-1/2" (54mm x 89mm) Rectangular extends 11-1/4" (28.6cm) to 15-1/4" (38.7cm)	EA	12
M-5	1" x 2" (25mm x 50mm) Oval extends 8-1/2" (21.5cm)	EA	12
M-2R	Replacement Head for M-2	EA	1

Magna-Lite

Unbreakable pocket flashlight/magnifier. Ideal for checking small serial numbers and names on compressors or where poor light makes reading difficult. Powerful, optical-quality magnifying lens. Lightweight. Replacable penlight batteries.



CATALOG NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
ML-100	Pocket Flashlight and Magnifier	EA	12

THERMOMETERS

Pocket Thermometers

1" diameter dials with 5" stems (.145 dia.). Adjustable for recalibration. All stainless steel construction. Polycarbonate crystal. 1% accuracy full scale. Plastic pocket sheath included.



CATALOG NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
TD-1	Pocket Thermometer – 0 +220°F	EA	12
TD-2	Pocket Thermometer – -40°F to 160°F	EA	12

Deluxe Digital Pocket Thermometer

- Water and Drop Resistant, Rugged Construction
- Data Hold
- F/C Switch
- On/Off Switch
- Auto Power Off
- 2.5" Probe
- Protective Cover with Clip
- -40°F to 300°F, -40°C to 150°C

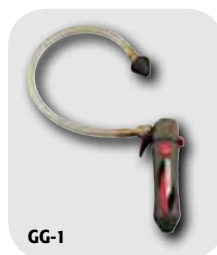


CATALOG NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
6-HDT303K	Deluxe Digital Pocket Thermometer	EA	1

GALLO GUN DRAIN LINE CLEANER GUN AND SWOOSH CO₂ CARTRIDGES

Gallo Gun Drain Line Cleaner for A/C Condensate Lines

Clears condensate drains with a SWOOSH! A lightweight 85g portable tool designed to blow out drain lines instantly. New larger CO₂ cartridges now deliver 8000 kPa of oil free, food-grade carbon dioxide to clear the line. Each unit comes equipped with a tapered fitting to work on 9.5mm to 19mm drain openings. Flexible hose assembly manoeuvres through cabinets, coils and hard to reach drains. Cartridges are environmentally safe and recyclable. No need for air or nitrogen tanks. Reduces labour costs and time on Service Calls.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
GG-1	Gallo Gun Drain Line Cleaner for A/C Condensate Lines	EA	6
GGC-6	Gallo Gun CO ₂ Cartridge, pack of 6	PK	12
GG-1A	Gallo Gun Drain Line Cleaner Adapter Kit	EA	1
GG-1H	Gallo Gun Drain Line Cleaner Hose Assembly	EA	1

WELDING TORCHES, SUPPLIES

Pistol Grip Hand Torch

Featuring a one button auto-ignition torch in a pistol grip design. Includes a stainless steel tip.

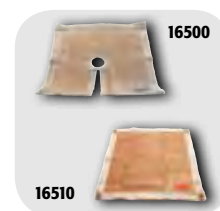


525-TX504

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
525-TX504	Pistol Grip Hand Torch	EA	1

Blaze Barrier® Mat

This flame barrier drop mat withstands temperatures to 3000°F(1600°C). No asbestos. Protects walls, floors, equipment, components and adjacent surfaces from torch flames when soldering, brazing or welding. All mats have edges taped and sewn with grommets at each corner. Highly resistant to many chemicals and acids.



16500

16510

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
16500	18" x 18" Plain (46cm x 46cm)	EA	1
16510	18" x 18" Keyhole w/cutout for draping over pipes/tubes (46cm x 46cm)	EA	1

Hand Torch

Developed for the professional. 360° tip for easy use, rugged brass regulator, easy to clean orifice, and interchangeable tip capability. Designed to operate with a tank of either MAPP or Propane gas.



525-STK9

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
525-STK9	Hand Torch	EA	1

DRAIN LINE, HOSE

Clear Vinyl Tubing

Clear vinyl hose applications include: air conditioning and refrigeration condensate drains, condensate pump discharge lines and humidifier overflows.



7-14

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
7-14	1/4" ID Clear Vinyl Tubing, 30m roll	EA	1
7-38	3/8" ID Clear Vinyl Tubing, 30m roll	EA	1
7-12	1/2" ID Clear Vinyl Tubing, 30m roll	EA	1
7-58	5/8" ID Clear Vinyl Tubing, 30m roll	EA	1
7-34	3/4" ID Clear Vinyl Tubing, 30m roll	EA	1
7-78	7/8" ID Clear Vinyl Tubing, 15m roll	EA	1
7-10	1" ID Clear Vinyl Tubing, 15m roll	EA	1

THERMOSTAT GUARDS

Plastic Thermostat Guards

Plastic thermostat guards are used to prevent tampering with thermostats. The covers are clear, allowing complete viewing of the thermostat, and current settings. Furnished complete with ring and/or solid base as noted. Includes vent holes for easy airflow across the thermostat. Lockable with universal key. Internal dimensional clearance/sizing for thermostats as noted.



585-TG1

CATALOGUE NO.	DESCRIPTION	T-STAT CLEARANCE	ORDER UOM	ORDER MULTIPLE
585-TG	Clear Plastic, Two Bases	8-1/4" x 4-1/2" x 3-1/4"	EA	1
585-TG1	Clear Plastic, Two Bases	5-3/4" x 3-1/2" x 2-3/4"	EA	1
585-TG2	Clear Plastic, Two Bases	4-3/4" x 4-1/4" x 2-3/4"	EA	1
585-TG5	Clear Plastic, Solid Base	3-1/2" x 3-1/4" x 2-1/4"	EA	1
585-TG6	Clear Plastic, Two Bases	6-1/4" x 3-3/4" x 1-3/4"	EA	1

GLOVES, WIPES, SHOE COVERS

Latex Gloves

Disposable natural latex rubber which provides a natural feel and grip.



23010

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
23010	Latex Gloves	EA	50 Pairs/Box

WypAll Plus

Absorbs grease, oil, water and solvents from floors, hands, parts, tools and machinery. Tough enough for extra heavy jobs. Comes in a convenient pop-up box of 100 towels.



5-05790

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
5-05790	WypAll Plus Towels-White	EA	100/box

Shoe Covers

Slip these shoe covers on in seconds to protect carpet, tile, or wood from dirt and scuff marks. Customers will appreciate your professional appearance.



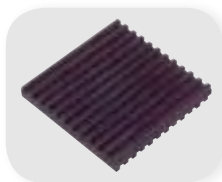
SC-1

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
SC-1	Dark Blue Shoe Covers, box of 50 pairs	EA	1

ANTI-VIBRATION PADS

Rubber Anti-Vibration Pad

Highest quality elastomeric oil resistant padding. Designed to withstand 50 lbs. psi. The rubber pads are corrugated on both sides. Ideal for air conditioners, compressors, cooling towers, presses, machines, etc.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
MP-2	2" x 2" x 3/8" (5cm x 5cm x 1cm) Rubber	EA	48
MP-3	3" x 3" x 3/8" (8cm x 8cm x 1cm) Rubber	EA	36
MP-4	4" x 4" x 3/8" (10cm x 10cm x 1cm) Rubber	EA	24
MP-18	18" x 18" x 3/8" (46cm x 46cm x 1cm) Rubber	EA	6

Iso-Cube Anti-Vibration Pad

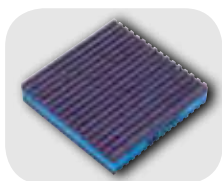
Natural rubber pads, designed to reduce vibration and noise emanating from refrigeration and air conditioning equipment. The circular design in each pad offers a suction cup effect, which eliminates the need to bolt the pads down. A standard 18" (46cm) pad is divided into eighty-one 2" (5cm) segments, each of which may be cut or torn to provide smaller pads. These 50 durometer pads will withstand a load of 180 psi with greater resiliency.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
ISO-4	4" x 4" x 3/4" Iso-Cube (10cm x 10cm x 1.9cm)	EA	12
ISO-18	18" x 18" x 3/4" Iso-Cube (46cm x 46cm x 1.9cm)	EA	6

E.V.A. Anti-Vibration Pad

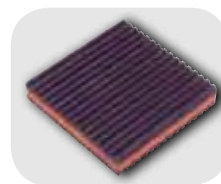
The latest generation in vibration dampening technology – the EVA pad. The most effective vibration dampening pad available on the market. We tested the EVA Pad against other pads at four different vibration settings. In the most severe vibration extremes, the new EVA Pad outperforms cork and rubber by a margin of greater than 3:1! This enhanced performance is due to the special composite foam centre. The composite foam is much more structurally sound than cork. It is not affected by oils or chemicals that can sometimes break down cork, and is much more effective at vibration dampening than solid rubber. In essence, the EVA Pad gives you the best of both worlds, at a very competitive price. Designed to withstand 50 lbs. psi.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
MP-2E	2" x 2" x 7/8" (5cm x 5cm x 2cm) E.V.A. Pad	EA	48
MP-3E	3" x 3" x 7/8" (8cm x 8cm x 2cm) E.V.A. Pad	EA	36
MP-4E	4" x 4" x 7/8" (10cm x 10cm x 2cm) E.V.A. Pad	EA	24
MP-6E	6" x 6" x 7/8" (15cm x 15cm x 2cm) E.V.A. Pad	EA	24
MP-12E	12" x 12" x 7/8" (30cm x 30cm x 2cm) E.V.A. Pad	EA	12
MP-18E	18" x 18" x 7/8" (46cm x 46cm x 2cm) E.V.A. Pad	EA	6

Rubber/Cork Anti-Vibration Pad

Highest quality elastomeric oil resistant padding. Designed to withstand 50 lbs. per square inch. The rubber pads are corrugated on both sides. The cork is laminated between two corrugated pads. Ideal for air conditioners, compressors, cooling towers, presses, machines, etc.



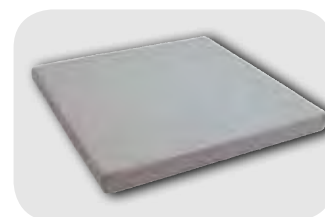
CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
MP-2C	2" x 2" x 7/8" (5cm x 5cm x 2cm) Rubber/Cork	EA	48
MP-3C	3" x 3" x 7/8" (8cm x 8cm x 2cm) Rubber/Cork	EA	36
MP-4C	4" x 4" x 7/8" (10cm x 10cm x 2cm) Rubber/Cork	EA	24
MP-6C	6" x 6" x 7/8" (15cm x 15cm x 2cm) Rubber/Cork	EA	24
MP-8C	8" x 8" x 7/8" (20cm x 20cm x 2cm) Rubber/Cork	EA	12
MP-12C	12" x 12" x 7/8" (30cm x 30cm x 2cm) Rubber/Cork	EA	12
MP-18C	18" x 18" x 7/8" (46cm x 46cm x 2cm) Rubber/Cork	EA	6

EQUIPMENT PADS

UltraLite® Lightweight Equipment Pads

UltraLite® is a true concrete equipment pad at the weight of plastic (about 12kg per m²). UltraLite® is strengthened by miles of fibre in each square foot of fibre-cement coating. This fibre allows the pad to flex instead of cracking or breaking. The textured surface prevents the condensing unit or portable generator from sliding, and allows water drainage, while the engineered encapsulated polystyrene (EPS) core prevents warping and provides a solid bottom to resist settling. UltraLite® is unaffected by soil conditions, ultraviolet (UV) light, temperature extremes, and other weather conditions.

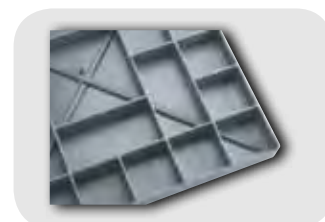
CATALOGUE NO.	SIZE (in)	SIZE (mm)	THICKNESS	PAD WEIGHT	ORDER UOM	ORDER MULTIPLE
UC1636-2	16 x 36	400 x 900	51mm	5kg	EA	20
UC2424-2	24 x 24	600 x 600	51mm	5kg	EA	20
UC2448-3	24 x 48	600 x 1200	76mm	10kg	EA	15



E Lite® Plastic Equipment Pads

E-Lite's rugged design provides uniform and generous ribbing for optimum, self-levelling ground support without inserts. The result is a pad that is lightweight, but not too light. A subtle texture prevents unit slide and presents a classic appearance, which is enhanced by rounded edges and a concrete grey colour. Each pad is moulded with a size label and a symbol representing content of recycled material.

CATALOGUE NO.	SIZE (in)	SIZE (mm)	THICKNESS	PAD WEIGHT	ORDER UOM	ORDER MULTIPLE
EL2424-2	24 x 24	600 x 600	51mm	2.5kg	EA	44
EL2436-2	24 x 36	600 x 900	51mm	5kg	EA	22



CLAMPS, TIES, HEAT SHRINK TUBING

Cushion Clamps

Cushion clamps are an industry standard, universal clamp that mounts to standard strut. The clamps are steel with electro-dichromate finish to resist corrosion. The lock nut features a nylon insert to assure a positive lock. The polymeric grommet withstands temperatures from -25°C to 125°C and resists the effects of most oils, chemicals, and industrial cleaning compounds. Available in 14 sizes from 1/4" to 4-1/8". Clamps are available either in single packs or in job packs comprising five or ten clamps, depending on the size.



Single Pack

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
538-1/4	Cushion Clamp (1/4)	EA	25/Box
538-3/8	Cushion Clamp (3/8)	EA	25/Box
538-1/2	Cushion Clamp (1/2)	EA	25/Box
538-5/8	Cushion Clamp (5/8)	EA	25/Box
538-3/4	Cushion Clamp (3/4)	EA	25/Box
538-7/8	Cushion Clamp (7/8)	EA	25/Box
538-1-1/8	Cushion Clamp (1-1/8)	EA	10/Box
538-1-3/8	Cushion Clamp (1-3/8)	EA	10/Box
538-1-5/8	Cushion Clamp (1-5/8)	EA	10/Box
538-2-1/8	Cushion Clamp (2-1/8)	EA	10/Box
538-2-5/8	Cushion Clamp (2-5/8)	EA	10/Box
538-3-1/8	Cushion Clamp (3-1/8)	EA	10/Box
538-3-5/8	Cushion Clamp (3-5/8)	EA	10/Box
538-4-1/8	Cushion Clamp (4-1/8)	EA	10/Box

Job Pack

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
538-1/4-JP	Cushion Clamp (1/4) – pack of 10	PK	30
538-3/8-JP	Cushion Clamp (3/8) – pack of 10	PK	30
538-1/2-JP	Cushion Clamp (1/2) – pack of 10	PK	25
538-5/8-JP	Cushion Clamp (5/8) – pack of 10	PK	25
538-3/4-JP	Cushion Clamp (3/4) – pack of 10	PK	20
538-7/8-JP	Cushion Clamp (7/8) – pack of 10	PK	20
538-1-1/8-JP	Cushion Clamp (1-1/8) – pack of 10	PK	16
538-1-3/8-JP	Cushion Clamp (1-3/8) – pack of 10	PK	16
538-1-5/8-JP	Cushion Clamp (1-5/8) – pack of 10	PK	16
538-2-1/8-JP	Cushion Clamp (2-1/8) – pack of 10	PK	16
538-2-5/8-JP	Cushion Clamp (2-5/8) – pack of 5	PK	12
538-3-1/8-JP	Cushion Clamp (3-1/8) – pack of 5	PK	12
538-3-5/8-JP	Cushion Clamp (3-5/8) – pack of 5	PK	8
538-4-1/8-JP	Cushion Clamp (4-1/8) – pack of 5	PK	8

Hose Clamps

Partial stainless, worm drive, adjustable. 300 series stainless steel 1/2" band with plated 5/16" slotted hex head screw and housing. Recommended for most applications. 100% interlock construction features one-piece housing which directly locks into the band. Spot weld free design.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
B-4H	No. 4, 7/32" – 5/8" diameter, 3/16" – 5/16" hose I.D.	EA	10
B-6H	No. 6, 3/8" – 7/8" diameter, 1/4" – 3/8" hose I.D.	EA	10

Wire Tie Mounts



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
WTM1	Wire Tie Mounts – Adhesive Back	EA	4
WTM1C	Wire Tie Mounts – Adhesive Back	EA	100
WTM2	Wire Tie Mounts – #8 Screw	EA	7
WTM2C	Wire Tie Mounts – #8 Screw	EA	100

Black Nylon Cable Ties



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
WTB11CR	Cable Ties, 11"(28cm) Nylon – releasable	EA	100

NYLON FITTINGS

Nylon Fittings

All fittings packaged with identification. To order nylon fittings in bulk, enter catalogue number followed by the letter "B." For example, 701-001B is the bulk part number for 701-001. Bulk sold in packs of 100.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
701-004	Adapter – 1/4 (6mm) Barb x 1/4 MPT	EA	2
701-006	Adapter – 3/4 (19mm) Barb x 3/4 FPT	EA	2
701-013	Adapter – 3/8 (10mm) Barb x 3/8 MPT	EA	2
701-024	Elbow – 3/4 (19mm) Barb x 3/4 FPT	EA	2
701-038	Tee – 3/8 (10mm) Barb	EA	2

Hose Mender (Barb x Barb)



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
701-029	Hose Mender – 1/2 Barb	EA	2
701-030	Hose Mender – 1/4 Barb	EA	2
701-031	Hose Mender – 3/4 Barb	EA	2
701-032	Hose Mender – 3/8 Barb	EA	2
701-033	Hose Mender – 5/8 Barb	EA	2

ABRASIVE CLOTHS

Abrasive Cloth

Aluminium oxide, high quality 120 grit, abrasive cloth to thoroughly clean copper and steel tubing. Works wet or dry. Exceeds industry standards for abrasive cloth.



SC-10

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
SC-10	Abrasive Cloth 1-1/2" x 10 yds. (38mm x 9.1m)	EA	24

Grip-Cut™

Open mesh sand screen cloth. Aluminium oxide grain resin bonded to synthetic nylon cloth. 100% waterproof, but can also be used dry for sanding by hand or with portable tools. Most effective where clogging is a problem, such as soft materials. 180 grit.



SCM-5

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
SCM-5	Grip-Cut™ 1-1/2" x 5 yds. (38mm x 4.6m)	EA	24

TAPES

Cork Insulation Tape

Adheres firmly to all metals. Use on hot or cold pipes to stop condensation and drips.



6-330

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
6-330	1/8" x 2" x 30' Roll – Black (0.3mm x 50mm x 9m)	EA	12

Foam Insulation Tape

Superior self-adhesive foam tape can be used on hot or cold pipes. Fits well around valves and fittings. Easily cut and moulded.

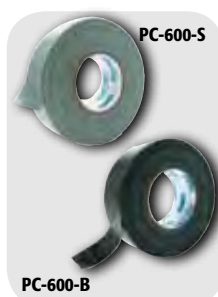


6-9718

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
6-9718	1/8" x 2" x 30' Roll – Black (3mm x 50mm x 9m)	EA	12

Cloth Duct Tapes

High-tack, excellent strength. Superior performance in sealing air handling systems. Heavy cloth content for easier tearing and additional strength.



PC-600-S

PC-600-B

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
PC-600-S	2" x 60 yds. Duct Tape – Silver (50mm x 55m)	EA	24
PC-600-B	2" x 60 yds. Duct Tape – Black (50mm x 55m)	EA	24

Electrical Tape



6-3460

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
6-3460	3/4" x 60' Economy Electrical Tape (19mm x 18.3m)	EA	10

Aluminium Foil Tape

Prevents heating and cooling losses. Blocks odours and moisture. Easy to handle. Use for HVAC and refrigeration systems. -35°F (-37°C) to +260°F (127°C) working temperatures. 3-5 year shelf life.



640-AF2

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
640-AF2	2" x 50 yds. Aluminium Foil Tape (50mm x 45m)	EA	24

Strapping Hanger Iron

Galvanised vent strapping, hanger iron, plumber's tape, pipe hanger tape and many other uses. 1/4" (6mm) centres for bolts or nails.



710-A1710

CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
710-A1710	Galv. Hanger Iron, 10' (3m) Rolls – 28 Gauge, 50 Rolls/Case	EA	50

LUBRICANTS AND DEGREASERS

Pull-A-Spout Oiler

All purpose oiler with a 14" (35cm) telescoping spout. Zooms out for long shots, and in for short shots, even zooms around corners. Squeeze bottle action. Perfect lubricant for general industrial use. Contains four ounces (118ml) of finest quality carbon free, rust and oxidation inhibited lubricating oil. Plastic container won't short out around electrical connections. No leakage.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
CO-1	Pull-A-Spout Oiler 4 oz.(118ml)	EA	12 (Display)

WD-40

Loosens rusted parts. Stops squeaks. Removes tar, grease and adhesives. Displaces moisture. Protects metal.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
741-001	WD-40 8 oz.(237ml)	EA	12
741-002	WD-40 11 oz.(325ml)	EA	12

Rust Breaker

Quickly loosens rusted bolts, screws, shafts, piping, and all types of "Frozen" connections and assemblies. The answer for rusty or corroded fastenings on cars, trucks, trailers, tractors, farm machinery, appliances, washing machines, plumbing, water pumps, fishing reels, power tools, gardening equipment, and hundreds of other mechanisms. Packaged in a handy telescoping spout applicator.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
CR-1	Rust Breaker - 4 oz. (118ml)	EA	12 (Display)

HDX Heavy Duty Degreaser

Quickly removes oil, grease, and dirt. Fast acting, non-flammable or conductive. Very fast evaporation. Does not contain CFCs. Does not require rinsing or wiping.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
LPS-7X	HDX Heavy Duty Degreaser - 19 oz.	EA	12

REFRIGERANT ID LABELS

DiversiTech Refrigerant ID Labels

These 3" x 4" self-adhesive vinyl labels use a high-tack acrylic adhesive and UV cured screen printing. Colour coded to conform to refrigerant labeling convention. Each label indicates the type of refrigerant (eg. R-11), the chemical name (eg. Trichloromonofluoromethane) and the UN No. (eg. UN 1078). Avoid costly mistakes by properly identifying the type of refrigerant contained in recovery cylinders and air conditioning and refrigeration equipment.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
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REFRIGERANT IDENTIFICATION LABELS (3" x 4")

04010	R-408a (FX10) Refrigerant ID Labels	EA	10
04022	R-22 Refrigerant ID Labels	EA	10
04056	R-409a (FX56) Refrigerant ID Labels	EA	10
04134	R-134a Refrigerant ID Labels	EA	10
04401	R-401a (MP39) Refrigerant ID Labels	EA	10
04402	R-402a (HP80) Refrigerant ID Labels	EA	10
04404	R-404a (HP62/FX70) Refrigerant ID Labels	EA	10
04407	R-407c (SUVA 9000/KLEA 66) Refrigerant ID Labels	EA	10
04410	R-410a (AZ20) Refrigerant ID Labels	EA	10
04417	R-417a Refrigerant ID Labels	EA	10
04451	R-401b (MP66) Refrigerant ID Labels	EA	10
04452	R-402b (HP81) Refrigerant ID Labels	EA	10
04507	R-507 (AZ50) Refrigerant ID Labels	EA	10
04509	R-416a Refrigerant ID Labels	EA	10

NON-FLAMMABLE GAS LABELS (4" x 4")

04700	Non Flammable Gas Labels	EA	10
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SYSTEM REFRIGERANT/OIL LABELS (3" x 4")

04850	Refrigerant Removed Labels	EA	10
04852	System Refrigerant/Oil Labels	EA	10

SYSTEM LUBRICANT IDENTIFICATION LABELS (2" x 3")

04870	Polyol Ester Oil Labels	EA	10
04871	Mineral Oil Labels	EA	10
04872	Alkylbenzine Oil Labels	EA	10

Silicone Sealant

Food grade 100% RTV Silicone Sealant. Can be used in applications for continuous use to 450°F (232°C). UV and water resistant. Long-term flexibility. Non-paintable. Available in 10.3 fl. oz. (305 ml) tube for use in standard caulk gun.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
7-4000	Clear Silicone Sealant 10.3 fl. oz. (305 ml) Tube	EA	12
7-4100	White Silicone Sealant 10.3 fl. oz. (305 ml) Tube	EA	12

PRO-TITE™ Resin Based Thread Sealant

Resin based thread sealant that adheres to internal surfaces, fills voids while forming a flexible fluid tight seal. Specifically formulated for use on metals and plastics subject to extreme vibration. Serviceable at temperatures from -100°F (-73°C) to 400°F (204°C) and from full vacuum to 10,000 PSI. Pro-Tite is impervious to most chemicals including refrigerants, petroleum products, gases, steam, etc. Alcohol based.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
CLL-1	Pro-Tite, 1-1/3 oz. (39ml) squeeze tube	EA	12

Wagner Adhesive Sealant

For refrigerant sealing. Eliminates fastener loosening, leakage, and corrosion. Cures between thread flanks to seal against leakage and prevents thread corrosion. Offers sealing with maximum solvent resistance to the action of refrigerant (11, 12 and 22), ammonia and sulphur dioxide. Withstands corrosive liquids used in metal finishings and process industries. Ideal sealant for refrigeration, A/C, and process equipment using corrosive chemicals.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
CAS-2712	Wagner Adhesive Sealant, 0.34 fl. oz. (10ml)	EA	10

Expanding Foam Sealant

One component closed-cell expanding polyurethane foam sealant for lineal caulking applications. Air-moisture cure. Tack free in 20 minutes; fully cured in 12 hours. Paintable. Use for insulating and sealing around windows, doors, pipes, ducts and vents. Non-toxic when cured. Paint to protect from UV exposure. "R" value 4.7- 1" (25mm) thickness. Foam contains fire retarding chemical but is not rated as a firestop product. Environmental concerns have led us to replace CFC's and HCFC's with hydrocarbon material in our one component foam products. See instructions on each product to ensure safe use and quality results.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
01714	Foam 12 oz. (355ml) can – Yields 275' (84m) – 3/8" bead (10mm)	EA	12
01724	Foam 20 oz. (591ml) can – Yields 460' (140m) – 3/8" bead (10mm)	EA	12

DiversiGum Sealing Compound

Non-hardening. For plugging openings through foundations or around refrigeration tube entry.



CATALOGUE NO.	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
6-202-1	1 lb. (0.5kg) Slug	EA	24
6-202-2	2 lb. (1kg) Slug	EA	20

LITERATURE

Catalogues

A4 literature detailing basic product and pricing information.



LIT-DCAT-RAC

SKU	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
LIT-DCAT-PRICE	RAC Products Price List – Electronic Only		
LIT-DCAT-RAC	Refrigeration and Air Conditioning Products Catalogue, pack of 10	PK	1

Technical Data Sheets

A4 literature detailing technical information on select products.



LIT-DATA-UC

SKU	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
LIT-DATA-COOL	Pro-Cool™ Data Sheet – Electronic Only		
LIT-DATA-UC	UltraLite™ Data Sheet – Electronic Only		
LIT-DATA-UNIV	Pro-Universal™ Data Sheet – Electronic Only		

Other Booklets

A5 literature for use primarily by engineers.



LIT-DCAT-COSHH

SKU	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
LIT-DCAT-COSHH	Booklet of all COSHH sheets for DiversiTech products, pack of 10	PK	1

BRANCH MERCHANDISING

Posters

A2 heavy weight poster for use alone, or in a poster frame.



LIT-DPOS-UNIV

SKU	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
LIT-DPOS-GG	Gallo Gun Poster	EA	1
LIT-DPOS-MP	Maintenance Products Poster	EA	1
LIT-DPOS-RAC	DiversiTech Poster	EA	1
LIT-DPOS-UC	UltraLite™ Poster	EA	1
LIT-DPOS-UNIV	Pro-Universal™ Poster	EA	1

Counter Mats

A3 heavy laminated counter mats, designed for robust use on the trade counter.

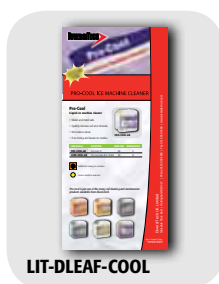


LIT-DMAT-AFLT

SKU	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
LIT-DMAT-AFLT	Access Fittings Counter Mat	EA	1
LIT-DMAT-MP	Maintenance Products Counter Mat	EA	1
LIT-DMAT-UNIV	Pro-Universal™ Counter Mat	EA	1

Strut Cards

1/3 A4 leaflets detailing information about specific products. Designed to be used by branch staff to provide basic product information to an engineer.

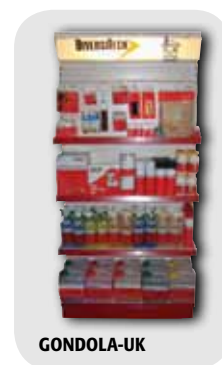


LIT-DLEAF-COOL

SKU	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
LIT-DLEAF-COOL	Pro-Cool Strut Card	EA	10
LIT-DLEAF-FLUSH	Pro-Flush™ Strut Card	EA	10
LIT-DLEAF-GEL	Smell Buster™ Strut Card	EA	10
LIT-DLEAF-GG	Gallo Gun™ Strut Card	EA	10
LIT-DLEAF-MP	Maintenance Products Strut Card	EA	10
LIT-DLEAF-PS	Power Sprayer Strut Card	EA	10
LIT-DLEAF-PT	Pro-Treat® Strut Card	EA	10
LIT-DLEAF-SPRAY	Sprayers Strut Card	EA	10
LIT-DLEAF-UC	UltraLite™ Strut Card	EA	10
LIT-DLEAF-UNIV	Pro-Universal™ Strut Card	EA	10

Product Displays

Available for a comprehensive in branch merchandising programme. Contact the sales team on 0115 900 5858 for details.



GONDOLA-UK

SKU	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
GONDOLA-UK	Merchandising Gondola, 2m x 1m x 1/2m	EA	1
MKT-POP-DTBACKS	DiversiTech Background Graphics – (600x800mm) for peg and slatwall, set of 2	EA	1

Strut Card Holders

Clear acrylic counter top holders for strut cards.



MKT-POP-BROCH



MKT-POP-BROCH4

SKU	DESCRIPTION	ORDER UOM	ORDER MULTIPLE
MKT-POP-BROCH	Brochure Holder w/DiversiTech Logo Imprinted	EA	1
MKT-POP-BROCH4	4-Pocket Brochure Holder	EA	1

Flushing out the R22 problem

WITH the ban on using virgin R22 as a top-up refrigerant looming, it is crucial, says Tom Fitzsimmons of Diversitech Ltd, that all companies owning and using R22 equipment start thinking about what needs to be done after this date to keep their equipment in service.

One solution is to replace with new equipment but unless the equipment is near the end of its useful service life, or is very inefficient, this is an expensive option.

Most companies with newer equipment will probably look at replacing the R22 in the system with a suitable HFC pure refrigerant such as R134a, an HFC blended refrigerant such as R407C or R404A or an HFC service blend designed to retrofit into existing R22 plant.

A significant issue with replacing R22 in systems with a pure or blended HFC is that R22 systems generally operate with mineral oil as a lubricant and many HFC refrigerants require the use of polyolester oil. Therefore there are possible cross-contamination issues unless all traces of the mineral oil can first be removed.

Diversi-Flush

In response to this problem, DiversiTech has developed the Diversi-Flush HVAC

internal system flushing and cleaning kit, available in the UK from Pump House.

The specially formulated Diversi-Flush solvent breaks down the molecular bond of the previous refrigeration oil sticking to the internal surfaces of the system and ensures that all traces are flushed out during the cleaning process.

The Diversi-Flush kit has everything in the box to undertake a complete system clean out including a 480ml container of Diversi-Flush solvent, a refillable aluminium cylinder with pressure relief valve, a service hose and injector tool with an adaptor for up to 1 1/2in copper pipe.

The Diversi-Flush system is easy to use and does not require the use of a pump of any kind as it uses something that all service engineers carry in their vehicle anyway as the propellant to "push" the Diversi-Flush solvent through the system and that is oxygen free nitrogen.

Simply put the Diversi-Flush solvent into the cylinder and pressurise with OFN up to 50psi and then, using the injector tool to access the system, release the OFN/ Diversi-Flush mix in to the system in short bursts until the system is cleaned and no sign of oil comes out at the other end of the pipe work.

Once done, flush the system through

with pure OFN at 150psi for about two minutes to remove any residual traces of Diversi-Flush from the system and you are then ready to put the new oil in the system, vacuum down and recharge with the new refrigerant.

Of course although Diversi-Flush is ideal for retrofitting refrigerants it can also be used to clean up after compressor burn outs and for cleaning and re-using existing pipe work runs during equipment upgrades etc.

Diversi-Flush has low toxicity, is residue free and all solvents in Diversi-Flush are non VOC. In addition it has a high flush solvency and evaporation rate and conforms to the EPA SNAP standards and is non-hazardous and non-flammable. Pump House 0115 900 5858



ULTRALITE™ artificial concrete equipment mounting pads

Tom Fitzsimons, product manager at Diversitech/Pump House offers an alternative to concrete mounting slabs. Tom can be contacted on 0115 900 5858 and for more information on UltraLite go to www.diversitech-uk.com.

Are you tired of risking life and limb (or at least toes and fingers) handling heavy and awkward concrete paving slabs to mount outdoor units on?

Well Pump House has the perfect solution in the form of Diversitech ULTRALITE™ artificial concrete equipment mounting pads. Weighing in at only 12 kilos per square metre (or about 5 kilos per 2 foot square slab) UltraLite slabs can easily be handled and installed by one person much quicker and easier than laying concrete slabs.

UltraLite pads are made from a core of expanded polystyrene foam (EPS) bonded on five sides by a cement impregnated fibre covering with a steel reinforced insert around the sides to give increased

strength. There are over 90 miles of fibre in each square metre of coating and the external appearance is very similar to concrete and has the advantage of providing excellent insulating properties and anti vibration abilities.

Available in several sizes UltraLite slabs are unaffected by soil conditions, ultraviolet light (UV) temperature extremes and all weather conditions and the textured surface prevents the equipment from sliding and allows good water drainage.

Pump House distribute the UltraLite equipment pads along with the full range of Diversitech product range through all good refrigeration wholesalers so next time you don't fancy a hernia try UltraLite from DiversiTech.



Clean coils equals efficient

Tom Fitzsimons, product manager with cleaning product manufacturer DiversiTech points out the tangible benefits of keeping coils clean.

A regular cleaning and maintenance programme is essential for the efficient running and cost effective operation of air conditioning equipment and will provide improved indoor air quality (IAQ) and over the lifespan of the equipment, saving the owner money.

Cleaning the coils, especially on outdoor units achieves several important objectives.

- 1) It improves the heat transfer efficiency between the refrigerant inside the coil and the ambient air outside. The more efficient the heat transfer, the more effectively the cooling system can operate. Dirt and grime that have gathered on the coils over time will inhibit heat transfer and increase the burden on the compressor causing more frequent operation with increased strain on the internal components which may shorten its lifespan and incur repair or premature replacement costs.
- 2) There is a significant impact on the equipment running costs when coils are heavily contaminated and even a small amount of dirt can have a marked effect on energy usage. Tests have demonstrated that a 1.52mm layer of dirt can increase energy consumption by over 50%. Over time, the extra operational cost is likely to be significantly higher than the cost of applying a regular cleaning regime.
- 3) A major advantage in cleaning and maintaining the evaporator coil is the improvement in the environment inside the building. Indoor air quality (IAQ) can be compromised by the circulation through the evaporator of potentially harmful bacteria. Poor IAQ can be a contributory factor to sick building syndrome (SBS) or Building Related Illness (BRI) and potentially have negative effects on a business, including a loss of customers, reduced employee productivity and possibly liability issues.

Which Cleaner?

Product selection when maintaining coils is so important. The engineer should always opt for a coil cleaner which has been designed to remove soil and contaminants from the specific equipment to be cleaned. Coil cleaners work by breaking down dirt, dust and mould, emulsifying oil and grease and dissolving mineral deposits.

However using traditional acid or alkaline based foaming cleaners can have a detrimental effect on the aluminium fins on the coils. This is because while traditional acid cleaners leave coils shiny and bright, what in fact has happened is that the cleaner has reacted with the aluminium and the subsequent

foaming action of the cleaner strips away the surface layer of aluminium from the coil. Less metal on the coil means that heat exchange is less effective and so more energy is required to achieve the same level of cooling and of course the life expectancy of the coil is reduced.

Research has showed that after five cleans by an acid based cleaner, as much as 24% of the metal from the fins has been eaten away. Typical alkaline cleaners, although more effective at breaking down organic dirt than acid based cleaners, still remove up to 18% of the fin material.

DiversiTech has developed Pro-Universal™ a multi-purpose coil cleaner which cleans indoor and outdoor coils very effectively but also has no detrimental effect on the aluminium fins. Pro-Universal™ is designed to attack dirt and grime but not the coil and although alkaline based, it contains a special inhibitor that prevents the chemical from attacking the coil.

Easy on the hands

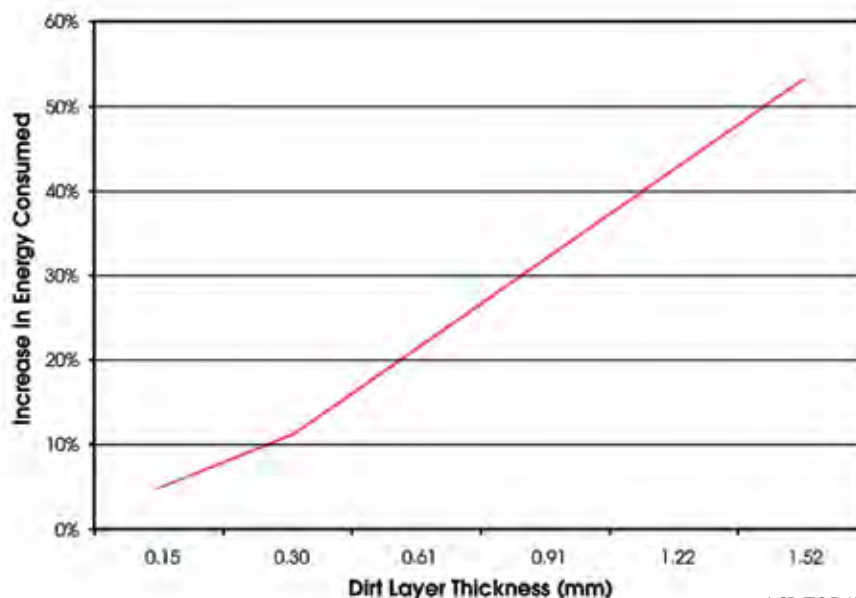
The graph below shows the detrimental effect that a build up of dirt on the surface of coils will have on the energy consumed by the air conditioning equipment. Dirty coils are expensive to run. Pro-Universal is so-named due its versatility because it is suitable for use on both condenser and evaporator coils alike. This reduces the need for the engineer to carry around an array of cleaning products for different applications.

Pro-Universal™ is available in a 5 litre



concentrated version, a 1 litre Good to Go (G2G™) pre-mixed version and also a unique dry "granular" version offering great advantages when it comes to transport and storage and excellent user benefits including ease of use and excellent performance.

DiversiTech® recommends that coils should be cleaned a minimum of twice per year. However, this frequency should be increased depending on the hours of operation and the internal and external environment.



TECHNICAL

Internal refrigerant system and line cleaning

While all types of flushing products used correctly will do the job, it is a matter of convenience, budget considerations and customer preference which determines the choice of product, explains Tom Fitzsimons, product manager at Diversitech/Pump House

The rapidly approaching ban on using virgin R22 as a Top-up refrigerant has led to a huge increase in the amount of systems being retrofitted to one of the newer more environmentally friendly pure refrigerants such as R134a or a HFC-blended refrigerant such as R407c or R404a.

A major issue with replacing R22 in systems with a pure or blended HFC refrigerant is that R22 systems generally operate with mineral oil as a lubricant and many of the new HFC refrigerants require the use of polyolester oil. Unless all traces of the previous mineral oil are removed from the system prior to retrofitting there is a high likelihood of cross-contamination, which could lead to damage to equipment.

The solution is to use an internal cleaning or flushing product to ensure that the system is clean before refilling with new oil and charging with new refrigerant.

I am sure that a number of you can remember pushing R11 through systems to clean them out, but of course we live in enlightened times now and R11 has long since been banned.

This has led to a couple of different types of alternative flushing products entering the market and these are generally either a circulatory product with a low evaporation rate, which is pumped around the system several times or a high evaporation rate solvent cleaner which is normally a single-pass product.

What do I have to do before flushing?

Remove the refrigerant from the system using a suitable recovery machine, dispose of through the correct disposal channels and isolate the electricity supply to the equipment. Disconnect the compressor and dryer and also remove or bypass all solenoid and/or check valves in the system.

Components on bigger systems with large volume capacity such as liquid receivers, suction line accumulators and oil separators can be flushed separately if preferred and it can also be easier to clean



the condenser coil, evaporator coil and the interconnecting pipe work in three separate sections.

How does a flushing product work?

All flushing products will break down the oil, sludge, etc, remaining in the system following the removal of the refrigerant and these contaminants are then flushed out during the cleaning and purging process leaving behind clean internal surfaces.

Which type of flushing product should I use?

It is important to ensure that the vast majority of product has been removed from the system by purging through with nitrogen because these products cannot be removed with a vacuum pump. It is also important to follow a manufacturer's instructions and recommendations regarding this as any excessive flushing solution left in the system could lead to contamination.

A high evaporation rate flushing solvent such as DiversiTech's DiversiFlush does not require a circulation pump because the engineer uses pressure regulated oxygen free nitrogen (OFN) as the propellant to carry the product through the system and the kit has a special re-usable cylinder and injector tool supplied with the kit. Once cleaned, neat OFN is then used to flush out any small amounts of solvent that may remain in the system.

In the unlikely event that there is any left after that it will boil off rapidly when evacuating the system with a vacuum pump. Other high evaporation flushing systems may use a pre-pressurised cylinder containing the cleaning solvent and propellant which needs to be replaced each time.

Are flushing products safe to use?

It is important to wear suitable personal protective equipment, use in well-ventilated areas and follow a manufacturer's usage instructions, and familiarity with the COSHH data supplied.

UltraLite™ Equipment Pads

LIGHTWEIGHT At an average weight of 2-1/2 pounds per square foot (12 kg. per square metre), the UltraLite lightweight concrete pad is one of the lightest equipment mounting products available today. Lightweight products are important for ease of handling on job site.

DURABLE The exterior of the UltraLite lightweight concrete pad is specifically engineered for long-term exterior weather resistance.

DUCTILE The skin and core of the UltraLite lightweight concrete pad is specifically engineered for flexibility and ductility demanded of job site handling. Additionally, the ductility of the outer skin facilitates conformance to slight ground contours without fracture.

TIME/LABOR SAVINGS Time is money, and hence any time savings on site translates into money saved. The UltraLite lightweight concrete pad literally installs in seconds while providing a solid foundation for the condensing unit.

FLAME RESISTANT The concrete outer skin of the UltraLite lightweight concrete pad is resistant to heating caused by the compressor. Additionally, the surface is resistant to heat from incidental torch flame during site installation.

VIBRATION ABSORBING The engineered polystyrene core in the UltraLite lightweight concrete pad absorbs and dampens vibration associated with normal operation of a condensing unit.

CONCRETE SURFACE The concrete external skin of the UltraLite lightweight concrete pad is not subject to ultraviolet degradation or weathering discoloration.

FREEZE/THAW RESISTANT The UltraLite lightweight concrete pad is vapor permeable. Water vapor evaporates through the pad, hence the concrete outer skin is not subject to expansion cracks.

OUTSIDE STORAGE

The UltraLite lightweight concrete pad is intended for life in the outdoors. As such, the pad is suitable for exterior storage prior to site installation.

ULTRALITE™
EQUIPMENT PADS
DIVERSITECH
www.diversitech.com
ICBO No. PFC-5112,
LA City RR No. 7570
U.S. Patent No. 5,209,968 O
5,268,226 - 5,664,394 - 5,728,458

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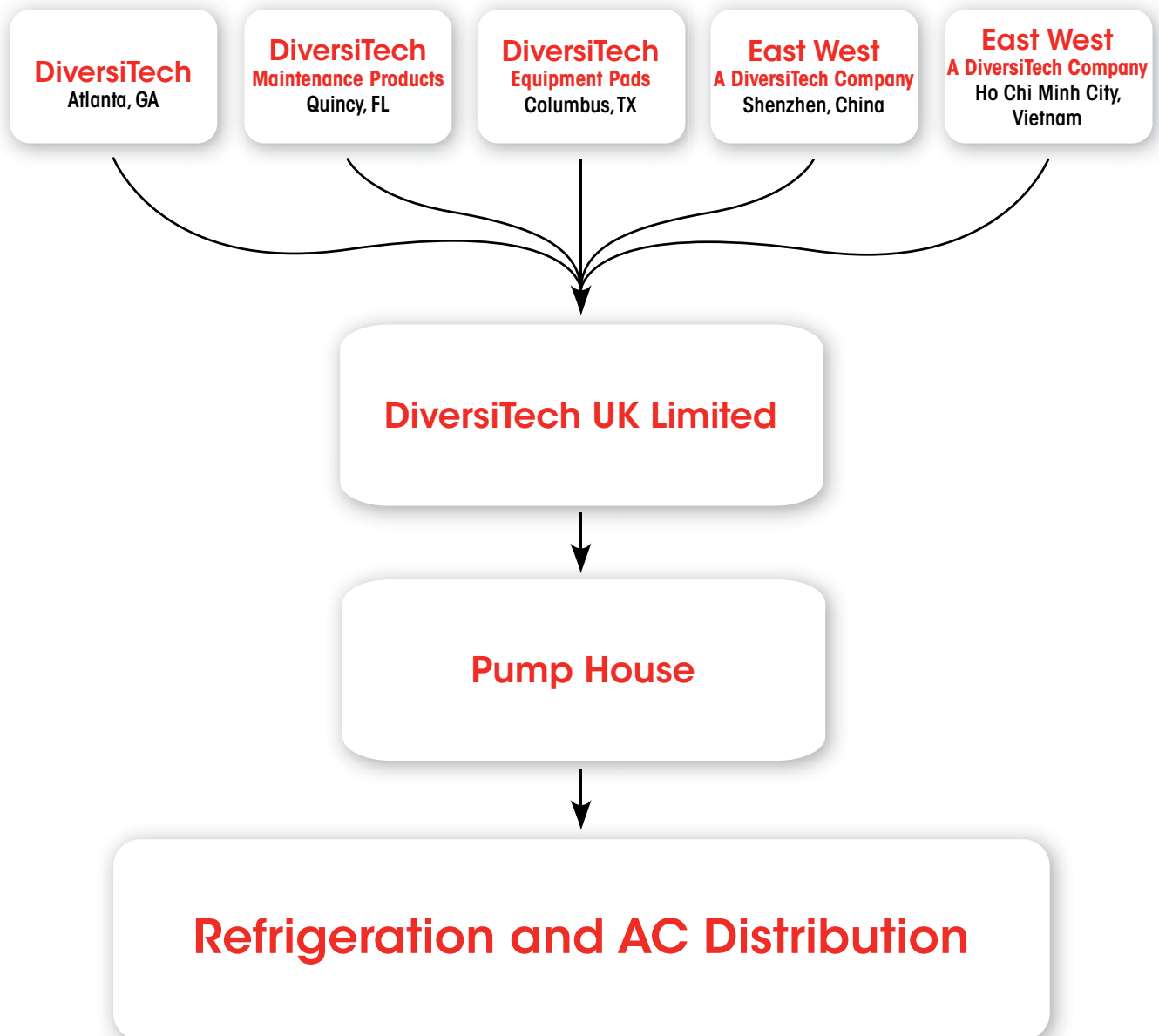
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